```
(* step one is to define the
 functions: (i) the variables we have are
   {ka0,ka,al,z,wbar,dl} (ii) {cbar,what} satisfy the
   condition that {V'[cbar]==0,R[what-cbar]== what}
   (iii) we want the condtion that {what<wbar}
```

In[•]:=
```
Quit[]
```

In[•]:=
```
Rfunction = {al Sqrt[w + z] - al Sqrt[z], al Sqrt[wbar + z] - al Sqrt[z] + (w - wbar) / dl};
V[c_] := ka0 Sqrt[c]
Vm[c_] := ka Sqrt[c]
R[w_] := Piecewise[{{al Sqrt[w + z] - al Sqrt[z], w ≤ wbar},
   {al Sqrt[wbar + z] - al Sqrt[z] + (w - wbar) / dl, w > wbar}}]
shocka =
 140 /
  100;
shockb = 60 / 100;
qa = 1 / 2;
qb = 1 - qa;
Ra[w_] := shocka R[w];
Rb[w_] := shockb R[w];
cbar = ka0^2 / 4;
what = 1/2 (al^2 - Sqrt[al^2 (-ka0^2 + (al - 2 Sqrt[z])^2)] - 2 al Sqrt[z]);
wbar = al^2 dl^2 / 4 - z;
dl = 8 / 10;
al = 30 / 10;
z = 1;
ka0 = 1 / 2;
ka = 52 / 100;
```

In[•]:=
```
FullSimplify[Solve[Flatten[
    {Simplify[{V'[cbar] == 1, FullSimplify[R[what - cbar] == what, what - cbar < wbar]}],
     Simplify[D[Rfunction[[1]], w] == D[Rfunction[[2]], w] /. w → wbar]},
   {cbar, what, wbar}][[1]]]
```

••• Part: Part specification Rfunction[[1]] is longer than depth of object.

••• Part: Part specification Rfunction[[2]] is longer than depth of object.

••• Solve: This system cannot be solved with the methods available to Solve.

Out[•]=
```
{V'[cbar] == 1, what == R[-cbar + what], True}
```

In[]:=
$$\text{cbar} = \frac{\text{ka0}^2}{4};$$

$$\text{what} = \frac{1}{2}\left(\text{al}^2 - \sqrt{\text{al}^2\left(-\text{ka0}^2 + \left(\text{al} - 2\sqrt{z}\right)^2\right)} - 2\,\text{al}\sqrt{z}\right);$$

$$\text{wbar} = \frac{\text{al}^2\,\text{dl}^2}{4} - z;$$

```
(* step two: find the right variables:
```

In[]:=
```
ClearAll[dl, al, z, ka0, ka]
```

In[]:=
```
{NMaximize[
  {dl, Simplify[0 < what < wbar && 0 < what - cbar && 0 < dl < 1 && 0 < ka0 < ka && 0 < z &&
      0 < al && cbar < what - cbar /. {al → 31/10, z → 1, ka0 → 1/2, ka → 52/100}]},
  dl], NMinimize[{dl, Simplify[0 < what < wbar && 0 < what - cbar &&
      0 < dl < 1 && 0 < ka0 < ka && 0 < z && 0 < al && cbar < what - cbar /.
     {al → 31/10, z → 1, ka0 → 1/2, ka → 52/100}]}, dl]}
```

Out[]=
```
{{1., {dl → 1.}}, {0.702698, {dl → 0.702698}}}
```

In[]:=
```
dl = 8/10; al = 30/10; z = 1; ka0 = 1/2; ka = 52/100;
```

In[]:=
```
FullSimplify[R[w]]
```

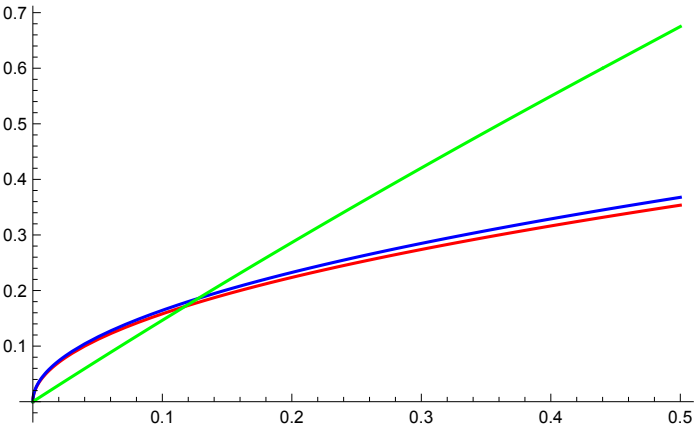
Out[]=
$$\begin{cases} \frac{1}{20} + \frac{5\,w}{4} & 25\,w > 11 \\ 3\left(-1 + \sqrt{1 + w}\right) & \text{True} \end{cases}$$

In[]:=
```
N[{wbar, what, cbar}]
```

Out[]=
```
{0.44, 0.200962, 0.0625}
```

In[]:=
```
Plot[{V[w], Vm[w], R[w]}, {w, 0, .5}, PlotRange → All, PlotStyle → {Red, Blue, Green}]
```

Out[]=



In[]:=
```
N[{R[R[wbar]], R[wbar], R[what], what}]
```

Out[]=
```
{0.8, 0.6, 0.287652, 0.200962}
```

(* step three: code for the market:

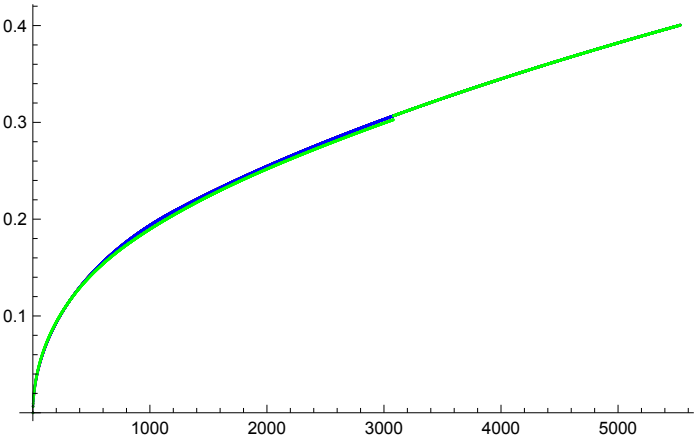
```
In[•]:= wupper0 = Ra[Ra[wbar]]; wupper = Ra[Ra[Ra[wbar]]]; grid = 1 / 2000;
        wealth = Table[w, {w, 0, wupper + grid, grid}];
        stationc = Flatten[ParallelTable[
            c /. Solve[R[wealth[[i]] - c] == wealth[[i]], c], {i, 1, Length[wealth]}]];

In[•]:= Pm0 = ParallelTable[Vm[N[stationc[[i]]]], {i, 1, Length[wealth]}];
        Pm = ParallelTable[Vm[N[stationc[[i]]]], {i, 1, Length[wealth]}];

In[•]:= Pmplus = Flatten[
           {ParallelTable[N[Max[Table[{1 - dl, dl}.{Vm[wealth[[i]]], {qa, qb}.{{(wealth[[
                                IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] - N[Ra[
                                 wealth[[j]] - wealth[[i]]]]) / (wealth[[IntegerPart[
                                   N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] - wealth[[
                                IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                             (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[N[Ra[wealth[[
                                         j]] - wealth[[i]]]] / grid] + 1]]) / (wealth[[IntegerPart[
                                   N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] - wealth[[
                                IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                            {Pm[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
                             Pm[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
                           {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                                N[Rb[wealth[[j]] - wealth[[i]]]]) / (wealth[[IntegerPart[
                                   N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] - wealth[[
                                IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                             (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                                   N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                              (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                                     grid] + 2]] - wealth[[IntegerPart[
                                   N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                            {Pm[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
                             Pm[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}}},
                       {i, 1, j}]]], {j, 1, wupper0 / grid}], Pm[[
             Length[Table[j, {j, 1, wupper0 / grid}]] + 1 ;;
              Length[
               wealth]]]}];
```

In[•]:=
```
ListPlot[{Pm0, Pm, Pmplus}, PlotStyle → {Red, Blue, Green}]
```

Out[•]=



In[•]:=
```
n = 1;
While[n < 25, Pm = Pmplus;
 Pmplus = Flatten[{ParallelTable[N[Max[Table[{1 - dl, dl}.{Vm[wealth[[i]]],
           {qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] +
                    2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) / (wealth[[IntegerPart[
                     N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] - wealth[[
                   IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                 (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[N[Ra[wealth[[
                         j]] - wealth[[i]]]] / grid] + 1]]) / (wealth[[IntegerPart[
                     N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] - wealth[[
                   IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                {Pm[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
                 Pm[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
               {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                    N[Rb[wealth[[j]] - wealth[[i]]]]) / (wealth[[IntegerPart[
                     N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] - wealth[[
                   IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                 (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[N[Rb[wealth[[
                         j]] - wealth[[i]]]] / grid] + 1]]) / (wealth[[IntegerPart[
                     N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] - wealth[[
                   IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                {Pm[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
                 Pm[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}}},
          {i, 1, j}]]], {j, 1, wupper0 / grid}], Pm[[
      Length[Table[j, {j, 1, wupper0 / grid}]] + 1 ;; Length[wealth]]]}];
 n++]
```

In[•]:=
```
Beep[]
```

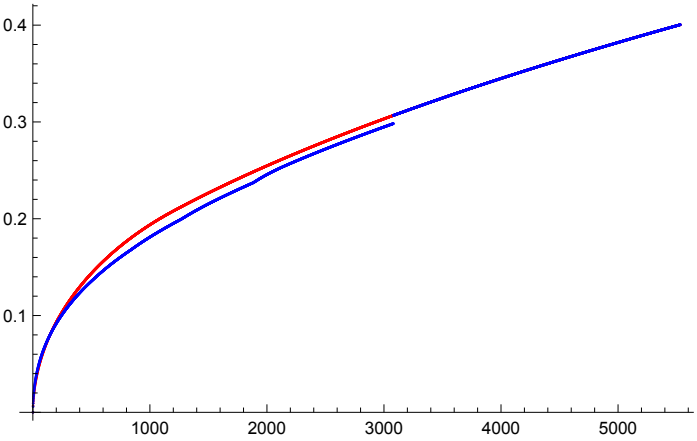
In[•]:=
```
{Max[Pmplus - Pm], Min[Pmplus - Pm], Max[Pmplus - Pm0]}
```

Out[•]=
$$\{0.,\ -5.12641\times10^{-6},\ 0.00256789\}$$

In[•]:=
```
(* the first two shall be close to zero, the last one shall be above zero.)
```

In[•]:=
```
ListPlot[{Pm0, Pmplus}, PlotStyle → {Red, Blue}, PlotRange → All]
```

Out[•]=




```
(* find the position of updated wealth!

ParallelTable[Position[Table[{1 - dl, dl}.{Vm[wealth[[i]]],
      {qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            N[Ra[wealth[[j]] - wealth[[i]]]]) /
          (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
         (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[
             IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
          (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
        {Pm[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
         Pm[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
        {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            N[Rb[wealth[[j]] - wealth[[i]]]]) /
          (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
         (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[
             IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
          (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
        {Pm[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
         Pm[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}}},
    {i, 1, j}], Max[Table[{1 - dl, dl}.{Vm[wealth[[i]]], {qa, qb}.
      {{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            N[Ra[wealth[[j]] - wealth[[i]]]]) /
```

```
                (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                  wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
               (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                     N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                  wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
              {Pm[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
               Pm[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
             {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                  N[Rb[wealth[[j]] - wealth[[i]]]]) /
                (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                  wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
               (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                     N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                  wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
              {Pm[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
               Pm[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}}},
          {i, 1, j}]]], {j, 1, wupper0 / grid}]
```

Out[•]=

```
{{{1}}, {{1}}, {{1}}, {{1}}, {{2}}, {{2}}, {{2}}, {{2}}, {{2}}, {{2}}, {{2}}, {{2}},
 {{2}}, {{2}}, {{3}}, {{3}}, {{3}}, {{3}}, {{3}}, {{3}}, {{3}}, {{3}}, {{4}},
 {{4}}, {{4}}, {{4}}, {{4}}, {{4}}, {{4}}, {{5}}, {{5}}, {{5}}, {{5}}, {{5}},
 {{5}}, {{5}}, {{6}}, ··· 3006 ···, {{723}}, {{723}}, {{723}}, {{723}}, {{723}},
 {{724}}, {{724}}, {{724}}, {{724}}, {{725}}, {{725}}, {{725}}, {{725}},
 {{726}}, {{726}}, {{726}}, {{726}}, {{726}}, {{727}}, {{727}}, {{727}},
 {{727}}, {{728}}, {{728}}, {{728}}, {{728}}, {{729}}, {{729}}, {{729}},
 {{729}}, {{729}}, {{730}}, {{730}}, {{730}}, {{730}}, {{731}}, {{731}}}
```

large output | show less | show more | show all | set size limit...

In[•]:=
```
consumecity = Flatten[%]
```

In[•]:=
```
consumecity = {1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 4, 4, 4, 4, 4,
   4, 4, 5, 5, 5, 5, 5, 5, 5, 6, 6, 6, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 8, 8, 8, 8, 8,
   8, 9, 9, 9, 9, 9, 9, 10, 10, 10, 10, 10, 10, 10, 11, 11, 11, 11, 11, 11, 12, 12,
   12, 12, 12, 12, 13, 13, 13, 13, 13, 13, 14, 14, 14, 14, 14, 14, 15, 15, 15, 15,
   15, 16, 16, 16, 16, 16, 16, 17, 17, 17, 17, 17, 17, 18, 18, 18, 18, 18, 19, 19,
   19, 19, 19, 20, 20, 20, 20, 20, 20, 21, 21, 21, 21, 21, 22, 22, 22, 22, 22, 23,
   23, 23, 23, 23, 23, 24, 24, 24, 24, 24, 25, 25, 25, 25, 25, 26, 26, 26, 26, 26,
   26, 27, 27, 27, 27, 28, 28, 28, 28, 28, 28, 29, 29, 29, 29, 30, 30, 30, 30, 30,
   31, 31, 31, 31, 31, 32, 32, 32, 32, 32, 33, 33, 33, 33, 33, 33, 33, 34, 34, 34,
   34, 35, 35, 35, 35, 35, 36, 36, 36, 36, 37, 37, 37, 37, 37, 38, 38, 38, 38, 38,
```

39, 39, 39, 39, 40, 40, 40, 40, 40, 41, 41, 41, 41, 42, 42, 42, 42, 42, 43, 43,
43, 43, 44, 44, 44, 44, 45, 45, 45, 45, 45, 46, 46, 46, 46, 47, 47, 47, 47, 47,
48, 48, 48, 48, 49, 49, 49, 49, 49, 50, 50, 50, 50, 50, 51, 51, 51, 51, 52, 52,
52, 52, 53, 53, 53, 53, 53, 54, 54, 54, 54, 54, 55, 55, 55, 55, 56, 56, 56, 56,
57, 57, 57, 57, 58, 58, 58, 58, 58, 59, 59, 59, 59, 60, 60, 60, 60, 61, 61, 61,
61, 62, 62, 62, 62, 61, 61, 62, 62, 62, 62, 63, 63, 63, 63, 64, 64, 64, 64, 65,
65, 65, 65, 66, 66, 66, 66, 67, 67, 67, 67, 68, 68, 68, 68, 69, 69, 69, 69, 70,
70, 70, 71, 71, 71, 71, 72, 72, 72, 72, 73, 73, 73, 73, 74, 74, 74, 74, 75, 75,
75, 75, 76, 76, 76, 76, 77, 77, 77, 77, 78, 78, 78, 78, 79, 79, 79, 80, 80, 80,
80, 81, 81, 81, 81, 82, 82, 82, 82, 83, 83, 83, 84, 84, 84, 84, 85, 85, 85, 85,
86, 86, 86, 86, 87, 87, 87, 88, 88, 88, 88, 89, 89, 89, 89, 90, 90, 90, 90, 91,
91, 91, 91, 92, 92, 92, 93, 93, 93, 93, 94, 94, 94, 94, 95, 95, 95, 96, 96, 96,
96, 97, 97, 97, 97, 98, 98, 98, 98, 99, 99, 99, 99, 100, 100, 100, 100, 100,
100, 101, 101, 101, 101, 102, 102, 102, 103, 103, 103, 103, 104, 104, 104, 104,
105, 105, 105, 106, 106, 106, 106, 107, 107, 107, 108, 108, 108, 108, 109, 109,
109, 109, 110, 110, 110, 111, 111, 111, 111, 112, 112, 112, 112, 113, 113, 113,
114, 114, 114, 114, 115, 115, 115, 115, 109, 110, 110, 110, 110, 111, 111, 111,
112, 112, 112, 113, 113, 113, 114, 114, 114, 114, 115, 115, 115, 116, 116, 116,
117, 117, 117, 118, 118, 118, 118, 119, 119, 119, 120, 120, 120, 121, 121, 121,
122, 122, 122, 122, 123, 123, 123, 124, 124, 124, 125, 125, 125, 126, 126, 126,
126, 127, 127, 127, 128, 128, 128, 129, 129, 129, 130, 130, 130, 131, 131, 131,
131, 132, 132, 132, 133, 133, 133, 134, 134, 134, 135, 135, 135, 136, 136, 136,
136, 137, 137, 137, 138, 138, 138, 139, 139, 139, 140, 140, 140, 141, 141, 141,
141, 142, 142, 142, 143, 143, 143, 144, 144, 144, 145, 145, 145, 146, 146, 146,
147, 147, 147, 148, 148, 148, 148, 149, 149, 149, 150, 150, 150, 151, 151, 151,
152, 152, 152, 153, 153, 153, 154, 154, 154, 155, 155, 155, 155, 156, 156, 156,
157, 157, 157, 158, 158, 158, 159, 159, 159, 160, 160, 160, 161, 161, 161, 161,
162, 162, 162, 163, 163, 163, 163, 164, 164, 164, 165, 165, 165, 166, 166, 166,
167, 167, 167, 167, 168, 168, 168, 169, 169, 169, 170, 170, 170, 170, 171, 171,
171, 171, 172, 172, 172, 173, 173, 173, 174, 174, 174, 174, 175, 175, 175, 176,
176, 176, 177, 177, 177, 178, 178, 178, 178, 179, 179, 179, 180, 180, 180, 181,
181, 181, 182, 182, 182, 183, 183, 183, 183, 184, 184, 184, 185, 185, 185, 186,
186, 186, 187, 187, 187, 187, 188, 188, 188, 189, 189, 189, 190, 190, 190, 191,
191, 191, 191, 192, 192, 192, 193, 193, 193, 194, 194, 194, 194, 195, 195, 195,
196, 196, 196, 196, 197, 197, 197, 198, 198, 198, 199, 199, 199, 199, 200, 200,
200, 201, 201, 201, 202, 202, 199, 199, 199, 200, 200, 200, 201, 177, 178, 178,
179, 179, 179, 180, 180, 181, 181, 181, 182, 182, 182, 183, 183, 184, 184, 184,
185, 185, 186, 186, 186, 187, 187, 187, 188, 188, 189, 189, 189, 190, 190, 191,
191, 191, 192, 192, 192, 193, 193, 194, 194, 194, 195, 195, 196, 196, 196, 197,
197, 197, 198, 198, 199, 199, 199, 200, 200, 201, 201, 201, 202, 202, 202, 203,
203, 204, 204, 204, 205, 205, 206, 206, 206, 207, 207, 207, 208, 208, 209, 209,
209, 210, 210, 211, 211, 211, 212, 212, 212, 213, 213, 214, 214, 214, 215, 215,
215, 216, 216, 217, 217, 217, 218, 218, 219, 219, 219, 220, 220, 221, 221, 221,
222, 222, 222, 223, 223, 224, 224, 224, 225, 225, 226, 226, 226, 227, 227, 227,

228, 228, 229, 229, 229, 230, 230, 231, 231, 231, 232, 232, 232, 233, 233, 234,
234, 234, 235, 235, 236, 236, 236, 237, 237, 237, 238, 238, 239, 239, 239, 240,
240, 241, 241, 241, 242, 242, 243, 243, 243, 244, 244, 244, 245, 245, 246, 246,
246, 247, 247, 248, 248, 248, 249, 249, 249, 250, 250, 251, 251, 251, 252, 252,
253, 253, 253, 254, 254, 255, 255, 255, 256, 256, 256, 257, 257, 258, 258, 258,
259, 259, 260, 260, 260, 260, 261, 261, 261, 262, 262, 262, 263, 263, 263, 264,
264, 264, 265, 265, 265, 266, 266, 266, 267, 267, 267, 268, 268, 268, 269, 269,
269, 270, 270, 270, 271, 271, 271, 272, 272, 272, 273, 273, 273, 274, 274, 274,
275, 275, 275, 276, 276, 276, 277, 277, 277, 278, 278, 278, 279, 279, 279, 280,
280, 280, 281, 281, 281, 282, 282, 282, 283, 283, 283, 284, 284, 284, 285, 285,
285, 286, 286, 286, 287, 287, 287, 288, 288, 288, 289, 289, 289, 290, 290, 290,
291, 291, 291, 292, 292, 292, 293, 293, 293, 294, 294, 294, 295, 295, 295, 296,
296, 296, 297, 297, 297, 298, 298, 298, 299, 299, 299, 300, 300, 300, 301, 301,
301, 302, 302, 302, 303, 303, 303, 303, 304, 304, 304, 304, 305, 305, 305, 306,
306, 306, 306, 307, 307, 307, 307, 308, 308, 308, 309, 309, 309, 309, 310, 310,
310, 310, 311, 311, 312, 312, 312, 312, 313, 313, 313, 313, 314, 314, 314, 315,
315, 315, 315, 316, 316, 316, 317, 317, 317, 317, 318, 318, 318, 319, 319, 319,
319, 320, 320, 320, 320, 321, 321, 321, 322, 322, 322, 322, 323, 323, 323, 324,
324, 324, 324, 325, 325, 325, 326, 326, 326, 326, 327, 327, 327, 327, 243, 243,
244, 244, 245, 245, 246, 246, 247, 247, 248, 249, 249, 245, 245, 246, 246, 247,
247, 248, 248, 249, 249, 250, 250, 251, 251, 252, 253, 253, 254, 254, 255, 255,
256, 256, 257, 257, 258, 258, 259, 259, 260, 260, 261, 261, 262, 262, 263, 263,
264, 265, 265, 266, 266, 267, 267, 268, 268, 269, 269, 270, 270, 271, 271, 272,
272, 273, 273, 274, 274, 275, 275, 276, 276, 277, 277, 278, 279, 279, 280, 280,
280, 281, 282, 282, 283, 283, 284, 284, 285, 285, 286, 286, 287, 287, 288, 288,
289, 289, 290, 290, 291, 291, 292, 292, 293, 293, 294, 294, 295, 295, 296, 296,
297, 298, 298, 299, 299, 300, 300, 301, 301, 302, 302, 303, 303, 304, 304, 305,
305, 306, 306, 307, 307, 308, 308, 309, 309, 310, 310, 311, 311, 312, 312, 313,
313, 314, 314, 315, 315, 316, 316, 317, 317, 318, 318, 319, 319, 320, 320, 321,
321, 322, 322, 323, 323, 324, 324, 325, 325, 326, 326, 327, 327, 328, 328, 329,
329, 330, 330, 331, 331, 332, 333, 333, 334, 334, 334, 335, 336, 336, 337, 337,
338, 338, 338, 339, 340, 340, 341, 341, 341, 342, 342, 343, 344, 344, 345, 345,
346, 346, 347, 347, 348, 348, 349, 349, 350, 350, 351, 351, 352, 352, 353, 353,
354, 354, 355, 355, 356, 356, 357, 357, 358, 358, 358, 359, 360, 360, 361, 361,
362, 362, 362, 363, 364, 364, 365, 365, 365, 366, 366, 367, 368, 368, 368, 369,
369, 369, 370, 370, 370, 370, 371, 371, 371, 372, 372, 372, 373, 373, 373, 374,
374, 374, 374, 375, 375, 375, 376, 376, 376, 377, 377, 377, 378, 378, 378, 378,
379, 379, 379, 380, 380, 380, 381, 381, 381, 381, 382, 382, 382, 383, 383, 383,
384, 384, 384, 385, 385, 385, 385, 386, 386, 386, 387, 387, 387, 388, 388, 388,
388, 389, 389, 389, 390, 390, 390, 391, 391, 391, 391, 392, 392, 392, 393, 393,
393, 394, 394, 394, 395, 395, 395, 396, 396, 396, 396, 397, 397, 397, 398, 398,
398, 399, 399, 399, 399, 400, 400, 400, 401, 401, 401, 402, 402, 402, 402, 403,
403, 403, 404, 404, 404, 405, 405, 405, 405, 406, 406, 406, 407, 407, 407, 408,
408, 408, 409, 409, 409, 409, 410, 410, 410, 411, 411, 411, 412, 412, 412, 412,

413, 413, 413, 414, 414, 414, 415, 415, 415, 415, 416, 416, 416, 417, 417, 417,
418, 418, 418, 418, 419, 419, 419, 420, 420, 420, 421, 421, 421, 421, 422, 422,
422, 423, 423, 423, 424, 424, 424, 424, 425, 425, 425, 426, 426, 426, 427, 427,
427, 427, 428, 428, 428, 429, 429, 429, 430, 430, 430, 430, 431, 431, 431, 432,
432, 432, 433, 433, 433, 433, 434, 434, 434, 435, 435, 435, 436, 436, 436, 437,
437, 437, 437, 438, 438, 438, 439, 439, 439, 439, 440, 440, 440, 441, 441, 441,
441, 442, 442, 442, 443, 443, 443, 444, 444, 444, 444, 445, 445, 445, 445, 446,
446, 446, 447, 447, 447, 447, 448, 448, 448, 449, 449, 449, 450, 450, 450, 450,
451, 451, 451, 452, 452, 452, 452, 453, 453, 453, 453, 454, 454, 454, 455, 455,
455, 455, 456, 456, 456, 457, 457, 457, 457, 458, 458, 458, 459, 459, 459, 459,
460, 460, 460, 461, 461, 461, 461, 462, 462, 462, 463, 463, 463, 463, 464, 464,
464, 464, 465, 465, 465, 466, 466, 466, 466, 467, 467, 467, 467, 468, 468, 468,
468, 469, 469, 469, 469, 470, 470, 470, 471, 471, 471, 471, 472, 472, 472, 472,
473, 473, 473, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219,
220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235,
236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251,
252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267,
268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283,
284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299,
300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315,
316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331,
332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347,
348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363,
364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379,
380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395,
396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411,
412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427,
428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443,
444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459,
460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475,
476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491,
492, 493, 493, 494, 494, 494, 494, 495, 495, 495, 496, 496, 496, 497, 497, 497,
498, 498, 498, 499, 499, 499, 499, 500, 500, 500, 501, 501, 501, 502, 502, 502,
503, 503, 503, 503, 504, 504, 504, 505, 505, 505, 506, 506, 506, 506, 507, 507,
508, 508, 508, 508, 509, 509, 509, 510, 510, 510, 510, 511, 511, 511, 512, 512,
512, 513, 513, 513, 513, 514, 514, 515, 515, 515, 515, 516, 516, 516, 517, 517,
517, 517, 518, 518, 518, 519, 519, 519, 520, 520, 520, 520, 521, 521, 521, 522,
522, 522, 523, 523, 523, 523, 524, 524, 524, 525, 525, 525, 526, 526, 526, 527,
527, 527, 527, 528, 528, 528, 529, 529, 529, 529, 530, 530, 530, 531, 531, 531,
532, 532, 532, 533, 533, 533, 534, 534, 534, 534, 535, 535, 535, 536, 536, 536,
536, 537, 537, 537, 538, 538, 538, 538, 539, 539, 539, 540, 540, 540, 541, 541,
541, 542, 542, 542, 542, 543, 543, 543, 544, 544, 544, 545, 545, 545, 545, 546,
546, 546, 546, 547, 547, 548, 548, 548, 548, 549, 549, 549, 550, 550, 550, 550,
551, 551, 551, 552, 552, 552, 553, 553, 553, 553, 554, 554, 554, 555, 555, 555,

```
556, 556, 556, 556, 557, 557, 557, 558, 558, 558, 558, 559, 559, 559, 560, 560,
560, 560, 561, 561, 561, 562, 562, 562, 563, 563, 563, 564, 564, 564, 564, 565,
565, 565, 566, 566, 566, 566, 567, 567, 567, 568, 568, 568, 568, 569, 569, 569,
570, 570, 570, 570, 571, 571, 571, 572, 572, 572, 573, 573, 573, 573, 574, 574,
574, 575, 575, 575, 576, 576, 576, 576, 577, 577, 577, 578, 578, 578, 578, 579,
579, 579, 580, 580, 580, 580, 581, 581, 581, 581, 582, 582, 582, 583, 583, 583,
584, 584, 584, 585, 585, 585, 586, 586, 586, 586, 587, 587, 587, 587, 588, 588,
588, 589, 589, 589, 589, 590, 590, 590, 591, 591, 591, 591, 592, 592, 592, 593,
593, 593, 593, 594, 594, 594, 595, 595, 595, 596, 596, 596, 597, 597, 597, 597,
598, 598, 598, 599, 599, 599, 599, 600, 600, 600, 601, 601, 601, 601, 602, 602,
602, 602, 603, 603, 603, 604, 604, 604, 604, 605, 605, 605, 606, 606, 606, 606,
607, 607, 607, 608, 608, 608, 609, 609, 609, 610, 610, 610, 610, 611, 611, 611,
611, 611, 612, 612, 612, 612, 613, 613, 613, 613, 614, 614, 614, 614, 615, 615,
615, 615, 615, 616, 616, 616, 616, 617, 617, 617, 618, 618, 618, 618, 618, 619,
619, 619, 619, 620, 620, 620, 620, 621, 621, 621, 621, 621, 622, 622, 622, 622,
623, 623, 623, 623, 624, 624, 624, 624, 625, 625, 625, 625, 626, 626, 626, 626,
626, 627, 627, 627, 627, 628, 628, 628, 628, 629, 629, 629, 629, 630, 630, 630,
630, 630, 631, 631, 631, 631, 632, 632, 632, 632, 633, 633, 633, 633, 634, 634,
634, 634, 635, 635, 635, 635, 635, 636, 636, 636, 636, 637, 637, 637, 637, 638,
638, 638, 638, 639, 639, 639, 639, 639, 640, 640, 640, 640, 641, 641, 641, 641,
642, 642, 642, 642, 643, 643, 643, 643, 644, 644, 644, 644, 644, 645, 645, 645,
645, 646, 646, 646, 646, 647, 647, 647, 647, 648, 648, 648, 648, 649, 649, 649,
649, 649, 650, 650, 650, 650, 651, 651, 651, 651, 652, 652, 652, 652, 653, 653,
653, 653, 653, 654, 654, 654, 654, 655, 655, 655, 655, 656, 656, 656, 656, 657,
657, 657, 657, 658, 658, 658, 658, 658, 659, 659, 659, 659, 660, 660, 660, 660,
661, 661, 661, 661, 661, 662, 662, 662, 662, 663, 663, 663, 663, 664, 664, 664,
664, 665, 665, 665, 665, 665, 666, 666, 666, 666, 667, 667, 667, 667, 668, 668,
668, 668, 669, 669, 669, 669, 670, 670, 670, 670, 670, 671, 671, 671, 671, 672,
672, 672, 672, 673, 673, 673, 673, 674, 674, 674, 674, 675, 675, 675, 675, 675,
676, 676, 676, 676, 677, 677, 677, 677, 678, 678, 678, 678, 679, 679, 679, 679,
679, 680, 680, 680, 680, 681, 681, 681, 681, 682, 682, 682, 682, 683, 683, 683,
683, 683, 684, 684, 684, 684, 685, 685, 685, 685, 686, 686, 686, 686, 687, 687,
687, 687, 687, 688, 688, 688, 688, 689, 689, 689, 689, 690, 690, 690, 690, 691,
691, 691, 691, 691, 692, 692, 692, 692, 693, 693, 693, 693, 694, 694, 694, 694,
695, 695, 695, 695, 695, 696, 696, 696, 696, 697, 697, 697, 697, 698, 698, 698,
698, 699, 699, 699, 699, 699, 700, 700, 700, 700, 701, 701, 701, 701, 702, 702,
702, 702, 703, 703, 703, 703, 704, 704, 704, 704, 704, 705, 705, 705, 705, 706,
706, 706, 706, 707, 707, 707, 707, 708, 708, 708, 708, 708, 709, 709, 709, 709,
709, 710, 710, 710, 710, 711, 711, 711, 711, 712, 712, 712, 712, 713, 713, 713,
713, 713, 714, 714, 714, 714, 715, 715, 715, 715, 716, 716, 716, 716, 716, 717,
717, 717, 717, 718, 718, 718, 718, 719, 719, 719, 719, 719, 720, 720, 720, 720,
721, 721, 721, 721, 722, 722, 722, 722, 723, 723, 723, 723, 723, 724, 724,
724, 724, 725, 725, 725, 725, 726, 726, 726, 726, 726, 727, 727, 727, 727,
728, 728, 728, 728, 729, 729, 729, 729, 729, 730, 730, 730, 730, 731, 731};
```

In[•]:=
```
wealthtmrcity =
 Table[IntegerPart[N[R[wealth[[j]] - wealth[[consumecity[[j]]]]]] / grid] + 1,
  {j, 1, wupper0 / grid}]
```

Out[•]=
```
{1, 2, 3, 5, 5, 6, 8, 9, 11, 12, 14, 15, 17, 18, 18, 20, 21, 23, 24, 26, 27, 29, 29, 30, 32,
 33, 35, 36, 38, 38, 39, 41, 42, 44, 45, 47, 47, 48, 50, 51, 53, 54, 56, 56, 57, 59,
 60, 62, 63, 65, 65, 66, 68, 69, 71, 72, 72, 74, 75, 77, 78, 79, 79, 81, 82, 84, 85,
 87, 88, 88, 90, 91, 93, 94, 96, 96, 97, 99, 100, 102, 103, 103, 105, 106, 108, 109,
 110, 110, 112, 113, 115, 116, 118, 118, 119, 121, 122, 124, 124, 125, 127, 128, 130,
 131, 131, 133, 134, 135, 137, 138, 138, 140, 141, 143, 144, 144, 146, 147, 149,
 150, 150, 152, 153, 155, 156, 157, 157, 159, 160, 162, 163, 163, 165, 166, 168,
 169, 169, 171, 172, 174, 175, 176, 176, 178, 179, 181, 182, 182, 184, 185, 187,
 188, 188, 190, 191, 192, 194, 195, 195, 197, 198, 200, 200, 201, 203, 204, 205,
 207, 207, 208, 210, 211, 211, 213, 214, 216, 217, 217, 219, 220, 221, 223, 223,
 224, 226, 227, 229, 229, 230, 232, 233, 234, 236, 237, 237, 239, 240, 242, 242,
 243, 245, 246, 247, 247, 249, 250, 252, 252, 253, 255, 256, 257, 257, 259, 260,
 262, 263, 263, 265, 266, 268, 268, 269, 270, 272, 273, 273, 275, 276, 278, 278,
 279, 280, 282, 283, 283, 285, 286, 288, 288, 289, 290, 292, 292, 293, 295, 296,
 298, 298, 299, 301, 302, 302, 303, 305, 306, 308, 308, 309, 310, 312, 312, 313,
 315, 316, 318, 318, 319, 320, 322, 323, 323, 325, 326, 328, 328, 329, 330, 332,
 332, 333, 335, 336, 338, 338, 339, 340, 342, 343, 343, 345, 346, 347, 347, 349,
 350, 352, 352, 353, 355, 356, 356, 357, 359, 360, 362, 362, 363, 364, 366, 366,
 367, 369, 370, 370, 372, 373, 374, 374, 376, 377, 379, 381, 383, 383, 384, 386,
 387, 387, 388, 390, 391, 391, 393, 394, 395, 395, 397, 398, 400, 400, 401, 403,
 404, 404, 405, 407, 408, 408, 410, 411, 412, 412, 414, 415, 417, 417, 418, 419,
 419, 421, 422, 424, 424, 425, 426, 428, 428, 429, 431, 432, 432, 433, 435, 436,
 436, 438, 439, 440, 440, 442, 443, 445, 445, 446, 447, 449, 449, 450, 452, 453,
 453, 454, 456, 456, 457, 459, 460, 460, 461, 463, 464, 464, 465, 467, 468, 468,
 470, 471, 471, 472, 474, 475, 475, 477, 478, 479, 479, 481, 482, 484, 484, 485,
 486, 486, 488, 489, 490, 490, 492, 493, 495, 495, 496, 497, 499, 499, 500, 502,
 503, 503, 504, 506, 506, 507, 508, 510, 510, 511, 513, 514, 514, 515, 517, 517,
 518, 520, 521, 521, 522, 524, 525, 525, 526, 528, 529, 529, 531, 532, 533, 533,
 535, 536, 537, 539, 540, 540, 542, 543, 544, 544, 546, 547, 547, 548, 550, 551,
 551, 553, 554, 555, 555, 557, 558, 558, 559, 561, 562, 562, 564, 565, 565, 566,
 568, 569, 569, 570, 572, 573, 573, 575, 576, 576, 577, 579, 580, 580, 581, 583,
 584, 584, 585, 587, 587, 588, 590, 591, 591, 592, 594, 595, 605, 605, 606, 607,
 609, 609, 610, 611, 611, 613, 614, 614, 615, 617, 617, 618, 620, 621, 621, 622,
 624, 624, 625, 626, 626, 628, 629, 629, 630, 632, 633, 633, 635, 636, 636, 637,
 639, 639, 640, 641, 641, 643, 644, 645, 645, 647, 648, 648, 649, 651, 651, 652,
 653, 653, 655, 656, 658, 658, 659, 660, 660, 662, 663, 663, 664, 666, 666, 667,
 668, 668, 670, 671, 672, 672, 674, 675, 675, 676, 678, 678, 679, 680, 680, 682,
 683, 683, 685, 686, 687, 687, 689, 690, 690, 691, 693, 693, 694, 695, 695, 697,
 698, 698, 699, 701, 702, 702, 703, 705, 705, 706, 707, 707, 709, 710, 710, 711,
 713, 713, 714, 715, 715, 717, 718, 718, 719, 721, 722, 722, 723, 725, 725, 726,
```

727, 727, 729, 730, 730, 731, 733, 733, 734, 735, 735, 737, 738, 738, 739, 741,
742, 742, 743, 745, 745, 746, 747, 747, 749, 750, 750, 751, 753, 753, 754, 755,
755, 757, 758, 759, 759, 761, 762, 762, 763, 765, 766, 766, 767, 769, 769, 770,
771, 771, 773, 774, 774, 775, 777, 778, 778, 779, 781, 781, 782, 783, 783, 785,
786, 787, 787, 789, 790, 791, 791, 793, 794, 794, 795, 797, 797, 798, 799, 801,
801, 802, 803, 803, 805, 806, 806, 807, 809, 809, 810, 811, 813, 813, 814, 815,
815, 817, 818, 818, 819, 820, 820, 822, 823, 823, 824, 826, 827, 827, 828, 830,
830, 831, 832, 832, 834, 835, 835, 836, 838, 839, 839, 840, 842, 842, 843, 844,
844, 845, 847, 847, 848, 849, 851, 851, 852, 853, 853, 855, 856, 856, 857, 859,
860, 860, 861, 863, 863, 864, 865, 867, 867, 868, 869, 869, 870, 872, 872, 873,
874, 876, 876, 877, 878, 878, 880, 881, 881, 882, 887, 889, 890, 890, 891, 893,
893, 925, 925, 927, 927, 928, 929, 929, 930, 930, 932, 933, 933, 934, 936, 936,
937, 937, 938, 940, 940, 941, 941, 942, 943, 943, 945, 946, 946, 947, 947, 949,
950, 950, 951, 951, 952, 954, 954, 955, 956, 956, 958, 958, 959, 960, 960, 962,
962, 963, 964, 964, 965, 967, 967, 968, 968, 969, 971, 971, 972, 972, 973, 974,
974, 976, 977, 977, 978, 978, 980, 981, 981, 982, 982, 983, 985, 985, 986, 987,
987, 989, 989, 990, 991, 991, 992, 992, 994, 995, 995, 996, 998, 998, 999, 999,
1000, 1001, 1001, 1003, 1004, 1004, 1005, 1005, 1007, 1008, 1008, 1009, 1009,
1010, 1012, 1012, 1013, 1013, 1014, 1016, 1016, 1017, 1018, 1018, 1019, 1019,
1021, 1022, 1022, 1023, 1023, 1025, 1026, 1026, 1027, 1028, 1028, 1030, 1030,
1031, 1032, 1032, 1034, 1034, 1035, 1036, 1036, 1037, 1039, 1039, 1040, 1040,
1041, 1043, 1043, 1044, 1044, 1045, 1046, 1046, 1048, 1049, 1049, 1050, 1050,
1051, 1053, 1053, 1054, 1054, 1055, 1057, 1057, 1058, 1058, 1059, 1060, 1060,
1062, 1063, 1063, 1064, 1064, 1065, 1067, 1067, 1068, 1068, 1069, 1071, 1071,
1072, 1073, 1073, 1074, 1074, 1076, 1077, 1077, 1078, 1078, 1079, 1081, 1081,
1082, 1082, 1083, 1085, 1085, 1086, 1087, 1087, 1088, 1088, 1090, 1091, 1091,
1092, 1092, 1093, 1095, 1096, 1096, 1097, 1099, 1099, 1100, 1101, 1101, 1102,
1104, 1104, 1105, 1106, 1106, 1107, 1109, 1109, 1110, 1111, 1111, 1112, 1114,
1114, 1115, 1116, 1116, 1118, 1119, 1119, 1120, 1121, 1121, 1123, 1124, 1124,
1125, 1126, 1126, 1128, 1129, 1129, 1130, 1131, 1131, 1133, 1134, 1134, 1135,
1136, 1136, 1138, 1139, 1139, 1140, 1142, 1142, 1143, 1144, 1144, 1145, 1147,
1147, 1148, 1149, 1149, 1150, 1152, 1152, 1153, 1154, 1154, 1155, 1157, 1157,
1158, 1159, 1159, 1160, 1162, 1162, 1163, 1164, 1164, 1165, 1167, 1167, 1168,
1169, 1169, 1170, 1172, 1172, 1173, 1174, 1174, 1175, 1177, 1177, 1178, 1179,
1179, 1180, 1182, 1182, 1183, 1184, 1184, 1185, 1187, 1187, 1188, 1189, 1189,
1190, 1192, 1192, 1193, 1194, 1194, 1195, 1197, 1197, 1198, 1199, 1199, 1201,
1202, 1202, 1203, 1204, 1206, 1206, 1207, 1208, 1209, 1209, 1211, 1212, 1212,
1213, 1214, 1216, 1216, 1217, 1218, 1219, 1219, 1221, 1222, 1222, 1223, 1224,
1226, 1226, 1227, 1228, 1229, 1229, 1231, 1231, 1232, 1233, 1234, 1234, 1236,
1237, 1238, 1238, 1239, 1241, 1241, 1242, 1243, 1244, 1244, 1246, 1247, 1247,
1248, 1249, 1251, 1251, 1252, 1253, 1253, 1254, 1256, 1257, 1257, 1258, 1259,
1261, 1261, 1262, 1263, 1263, 1264, 1266, 1267, 1267, 1268, 1269, 1269, 1271,
1272, 1273, 1273, 1274, 1276, 1276, 1277, 1278, 1279, 1279, 1281, 1282, 1283,
1389, 1391, 1391, 1392, 1392, 1393, 1393, 1394, 1394, 1396, 1396, 1396, 1397,

1403, 1404, 1404, 1406, 1406, 1407, 1407, 1408, 1408, 1409, 1409, 1411, 1411,
1412, 1412, 1412, 1413, 1413, 1414, 1414, 1416, 1416, 1417, 1417, 1418, 1418,
1419, 1419, 1421, 1421, 1422, 1422, 1423, 1423, 1424, 1424, 1426, 1426, 1426,
1427, 1427, 1428, 1428, 1429, 1429, 1431, 1431, 1432, 1432, 1433, 1433, 1434,
1434, 1436, 1436, 1437, 1437, 1438, 1438, 1439, 1439, 1441, 1441, 1442, 1442,
1442, 1443, 1443, 1444, 1446, 1446, 1446, 1447, 1447, 1448, 1448, 1449, 1449,
1451, 1451, 1452, 1452, 1453, 1453, 1454, 1454, 1456, 1456, 1457, 1457, 1458,
1458, 1459, 1459, 1461, 1461, 1462, 1462, 1463, 1463, 1464, 1464, 1464, 1466,
1466, 1467, 1467, 1468, 1468, 1469, 1469, 1471, 1471, 1472, 1472, 1473, 1473,
1474, 1474, 1476, 1476, 1477, 1477, 1478, 1478, 1479, 1479, 1481, 1481, 1482,
1482, 1483, 1483, 1484, 1484, 1486, 1486, 1487, 1487, 1488, 1488, 1489, 1489,
1491, 1491, 1492, 1492, 1493, 1493, 1494, 1494, 1496, 1496, 1497, 1497, 1498,
1498, 1499, 1499, 1501, 1501, 1502, 1502, 1503, 1503, 1504, 1504, 1506, 1506,
1507, 1507, 1507, 1508, 1508, 1509, 1511, 1511, 1511, 1512, 1512, 1513, 1513,
1514, 1516, 1516, 1516, 1517, 1517, 1518, 1519, 1519, 1521, 1521, 1521, 1522,
1522, 1523, 1523, 1524, 1524, 1526, 1526, 1527, 1527, 1528, 1528, 1529, 1529,
1531, 1531, 1532, 1532, 1533, 1533, 1534, 1534, 1536, 1536, 1537, 1537, 1538,
1538, 1539, 1541, 1541, 1541, 1542, 1542, 1543, 1543, 1544, 1546, 1546, 1546,
1547, 1547, 1548, 1549, 1549, 1551, 1551, 1551, 1552, 1553, 1553, 1554, 1556,
1556, 1557, 1558, 1559, 1559, 1561, 1562, 1562, 1563, 1564, 1564, 1566, 1567,
1567, 1568, 1569, 1571, 1571, 1572, 1573, 1573, 1574, 1576, 1576, 1577, 1578,
1578, 1579, 1581, 1582, 1582, 1583, 1584, 1584, 1586, 1587, 1587, 1588, 1589,
1591, 1591, 1592, 1593, 1593, 1594, 1596, 1596, 1597, 1598, 1598, 1599, 1601,
1602, 1602, 1603, 1604, 1604, 1606, 1607, 1607, 1608, 1609, 1611, 1611, 1612,
1613, 1613, 1614, 1616, 1616, 1617, 1618, 1619, 1619, 1621, 1622, 1622, 1623,
1624, 1624, 1626, 1627, 1627, 1628, 1629, 1629, 1631, 1632, 1633, 1633, 1634,
1636, 1636, 1637, 1638, 1638, 1639, 1641, 1642, 1642, 1643, 1644, 1644, 1646,
1647, 1647, 1648, 1649, 1651, 1651, 1652, 1653, 1653, 1654, 1656, 1656, 1657,
1658, 1659, 1659, 1661, 1662, 1662, 1663, 1664, 1664, 1666, 1667, 1667, 1668,
1669, 1671, 1671, 1672, 1673, 1673, 1674, 1676, 1676, 1677, 1678, 1679, 1679,
1681, 1682, 1682, 1683, 1684, 1684, 1686, 1687, 1688, 1688, 1689, 1691, 1691,
1692, 1693, 1693, 1694, 1696, 1697, 1697, 1698, 1699, 1699, 1701, 1702, 1702,
1703, 1704, 1706, 1706, 1707, 1708, 1708, 1709, 1711, 1711, 1712, 1713, 1714,
1714, 1716, 1717, 1717, 1718, 1719, 1719, 1721, 1722, 1723, 1723, 1724, 1726,
1726, 1727, 1728, 1728, 1729, 1731, 1732, 1732, 1733, 1734, 1734, 1736, 1737,
1737, 1738, 1739, 1741, 1741, 1742, 1743, 1743, 1744, 1746, 1746, 1747, 1748,
1748, 1749, 1751, 1752, 1752, 1753, 1754, 1754, 1756, 1757, 1758, 1758, 1759,
1761, 1761, 1762, 1763, 1764, 1764, 1766, 1767, 1767, 1768, 1769, 1769, 1771,
1772, 1773, 1773, 1774, 1776, 1777, 1777, 1778, 1779, 1779, 1781, 1782, 1783,
1783, 1784, 1786, 1786, 1787, 1788, 1788, 1789, 1791, 1792, 1792, 1793, 1794,
1794, 1796, 1797, 1798, 1798, 1799, 1801, 1802, 1802, 1803, 1804, 1804, 1806,
1807, 1808, 1808, 1809, 1811, 1811, 1812, 1813, 1814, 1814, 1816, 1817, 1817,
1818, 1819, 1821, 1821, 1822, 1823, 1823, 1824, 1826, 1827, 1827, 1828, 1829,
1829, 1831, 1832, 1833, 1833, 1834, 1836, 1837, 1837, 1838, 1839, 1839, 1841,

```
1842, 1843, 1843, 1844, 1846, 1847, 1847, 1848, 1849, 1851, 1851, 1852, 1853,
1854, 1854, 1856, 1857, 1857, 1858, 1859, 1861, 1861, 1862, 1863, 1864, 1864,
1866, 1867, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201, 2201,
2201, 2201, 2201, 2202, 2202, 2203, 2204, 2206, 2206, 2207, 2208, 2208, 2209,
2211, 2211, 2212, 2213, 2213, 2214, 2216, 2216, 2217, 2218, 2219, 2219, 2221,
2222, 2222, 2223, 2224, 2224, 2226, 2227, 2227, 2228, 2229, 2231, 2231, 2232,
2233, 2233, 2234, 2236, 2236, 2237, 2238, 2239, 2239, 2241, 2241, 2242, 2243,
2244, 2244, 2246, 2247, 2247, 2248, 2249, 2251, 2251, 2252, 2253, 2253, 2254,
2256, 2256, 2257, 2258, 2259, 2259, 2261, 2261, 2262, 2263, 2264, 2264, 2266,
2267, 2267, 2268, 2269, 2271, 2271, 2272, 2273, 2273, 2274, 2276, 2276, 2277,
2278, 2279, 2279, 2281, 2282, 2282, 2283, 2284, 2284, 2286, 2287, 2288, 2288,
2289, 2291, 2291, 2292, 2293, 2293, 2294, 2296, 2296, 2297, 2298, 2299, 2299,
2301, 2302, 2302, 2303, 2304, 2306, 2306, 2307, 2308, 2308, 2309, 2311, 2311,
2312, 2313, 2313, 2314, 2316, 2316, 2317, 2318, 2319, 2319, 2321, 2322, 2322,
2323, 2324, 2326, 2326, 2327, 2328, 2328, 2329, 2331, 2332, 2332, 2333, 2334,
2334, 2336, 2337, 2337, 2338, 2339, 2339, 2341, 2342, 2343, 2343, 2344, 2346,
2346, 2347, 2348, 2348, 2349, 2351, 2352, 2352, 2353, 2354, 2356, 2356, 2357,
2357, 2358, 2359, 2361, 2361, 2362, 2363, 2363, 2364, 2366, 2367, 2367, 2368,
2369, 2369, 2371, 2372, 2372, 2373, 2374, 2376, 2376, 2377, 2378, 2378, 2379,
2381, 2381, 2382, 2383, 2384, 2384, 2386, 2387, 2387, 2388, 2389, 2391, 2391,
2392, 2393, 2393, 2394, 2396, 2397, 2397, 2398, 2399, 2399, 2401, 2402, 2402,
2403, 2404, 2404, 2406, 2407, 2408, 2408, 2409, 2411, 2411, 2412, 2413, 2414,
2414, 2416, 2417, 2417, 2418, 2419, 2421, 2421, 2422, 2423, 2423, 2424, 2426,
```

2427, 2427, 2428, 2429, 2429, 2431, 2432, 2432, 2433, 2434, 2436, 2436, 2437,
2438, 2438, 2439, 2441, 2441, 2442, 2443, 2444, 2444, 2446, 2447, 2447, 2448,
2449, 2451, 2451, 2452, 2453, 2453, 2454, 2456, 2457, 2457, 2458, 2459, 2461,
2461, 2462, 2463, 2463, 2464, 2466, 2466, 2467, 2468, 2468, 2469, 2471, 2471,
2472, 2473, 2474, 2474, 2476, 2477, 2478, 2478, 2479, 2481, 2481, 2482, 2483,
2484, 2484, 2486, 2487, 2487, 2488, 2489, 2491, 2491, 2492, 2493, 2493, 2494,
2496, 2497, 2497, 2498, 2499, 2499, 2501, 2502, 2502, 2503, 2504, 2504, 2506,
2507, 2508, 2508, 2509, 2511, 2511, 2512, 2513, 2514, 2514, 2516, 2517, 2517,
2518, 2519, 2521, 2521, 2522, 2523, 2524, 2524, 2526, 2527, 2527, 2528, 2529,
2531, 2531, 2532, 2533, 2533, 2534, 2536, 2537, 2537, 2538, 2539, 2539, 2541,
2542, 2542, 2543, 2544, 2544, 2546, 2547, 2548, 2548, 2549, 2551, 2552, 2553,
2553, 2554, 2556, 2557, 2557, 2558, 2559, 2561, 2561, 2562, 2563, 2564, 2564,
2566, 2567, 2568, 2569, 2569, 2571, 2572, 2573, 2573, 2574, 2576, 2576, 2577,
2578, 2579, 2581, 2581, 2582, 2583, 2584, 2584, 2586, 2587, 2588, 2588, 2589,
2591, 2592, 2593, 2593, 2594, 2596, 2597, 2597, 2598, 2599, 2601, 2601, 2602,
2603, 2604, 2604, 2606, 2607, 2608, 2608, 2609, 2611, 2612, 2613, 2613, 2614,
2616, 2617, 2617, 2618, 2619, 2621, 2621, 2622, 2623, 2624, 2624, 2626, 2627,
2628, 2629, 2629, 2631, 2632, 2633, 2633, 2634, 2636, 2637, 2637, 2638, 2639,
2641, 2641, 2642, 2643, 2644, 2644, 2646, 2647, 2648, 2649, 2649, 2651, 2652,
2653, 2653, 2654, 2656, 2657, 2657, 2658, 2659, 2661, 2661, 2662, 2663, 2664,
2666, 2666, 2667, 2668, 2669, 2669, 2671, 2672, 2673, 2673, 2674, 2676, 2677,
2677, 2678, 2679, 2681, 2681, 2682, 2683, 2684, 2686, 2686, 2687, 2688, 2689,
2689, 2691, 2692, 2693, 2693, 2694, 2696, 2697, 2697, 2698, 2699, 2701, 2701,
2702, 2703, 2704, 2706, 2706, 2707, 2708, 2709, 2709, 2711, 2712, 2713, 2713,
2714, 2716, 2717, 2717, 2718, 2719, 2721, 2722, 2722, 2723, 2724, 2726, 2726,
2727, 2728, 2729, 2729, 2731, 2732, 2733, 2733, 2734, 2736, 2737, 2737, 2738,
2739, 2741, 2742, 2742, 2743, 2744, 2746, 2746, 2747, 2748, 2749, 2749, 2751,
2752, 2753, 2754, 2754, 2756, 2757, 2758, 2758, 2759, 2761, 2762, 2762, 2763,
2764, 2766, 2766, 2767, 2768, 2769, 2771, 2771, 2772, 2773, 2774, 2774, 2776,
2777, 2778, 2778, 2779, 2781, 2782, 2782, 2783, 2784, 2786, 2786, 2787, 2788,
2789, 2791, 2791, 2792, 2793, 2794, 2794, 2796, 2797, 2798, 2798, 2799, 2801,
2802, 2802, 2803, 2804, 2806, 2806, 2807, 2808, 2809, 2811, 2811, 2812, 2813,
2814, 2814, 2816, 2817, 2818, 2818, 2819, 2821, 2822, 2822, 2823, 2824, 2826,
2827, 2827, 2828, 2829, 2831, 2831, 2832, 2833, 2834, 2834, 2836, 2837, 2838,
2838, 2839, 2841, 2842, 2843, 2843, 2844, 2846, 2847, 2847, 2848, 2849, 2851,
2851, 2852, 2853, 2854, 2854, 2856, 2857, 2858, 2859, 2859, 2861, 2862, 2863,
2863, 2864, 2866, 2867, 2867, 2868, 2869, 2871, 2871, 2872, 2873, 2874, 2876,
2876, 2877, 2878, 2879, 2879, 2881, 2882, 2883, 2883, 2884, 2886, 2887, 2887,
2888, 2889, 2891, 2892, 2892, 2893, 2894, 2896, 2896, 2897, 2898, 2899, 2899,
2901, 2902, 2903, 2903, 2904, 2906, 2907, 2908, 2908, 2909, 2911, 2912, 2912,
2913, 2914, 2916, 2916, 2917, 2918, 2919, 2919, 2921, 2922, 2923, 2923, 2924,
2926, 2927, 2928, 2928, 2929, 2931, 2932, 2932, 2933, 2934, 2936, 2936, 2937,
2938, 2939, 2939, 2941, 2942, 2943, 2944, 2944, 2946, 2947, 2948, 2949, 2949,
2951, 2952, 2953, 2953, 2954, 2956, 2957, 2957, 2958, 2959, 2961, 2961, 2962,

```
         2963, 2964, 2966, 2966, 2967, 2968, 2969, 2969, 2971, 2972, 2973, 2973, 2974,
         2976, 2977, 2978, 2978, 2979, 2981, 2982, 2982, 2983, 2984, 2986, 2986, 2987,
         2988, 2989, 2991, 2991, 2992, 2993, 2994, 2994, 2996, 2997, 2998, 2998, 2999,
         3001, 3002, 3002, 3003, 3004, 3006, 3007, 3007, 3008, 3009, 3011, 3011, 3012,
         3013, 3014, 3014, 3016, 3017, 3018, 3019, 3019, 3021, 3022, 3023, 3023, 3024,
         3026, 3027, 3027, 3028, 3029, 3031, 3032, 3032, 3033, 3034, 3036, 3036, 3037}

In[•]:= wealthseq = Table[i, {i, 1, 150}];

In[•]:= wealthseq[[1]] = 7;

In[•]:= n = 2;

In[•]:= While[n < 151, wealthseq[[n]] = wealthtmrcity[[wealthseq[[n - 1]]]]; n++]

In[•]:= wealthseq

Out[•]= {7, 8, 9, 11, 14, 18, 23, 29, 38, 48, 62, 79, 100, 125, 156, 192, 234, 282, 335,
         394, 456, 518, 581, 651, 715, 774, 828, 878, 954, 1014, 1062, 1100, 1131,
         1158, 1180, 1199, 1216, 1231, 1244, 1257, 1268, 1278, 1392, 1467, 1513, 1542,
         1563, 1582, 1598, 1612, 1624, 1634, 1643, 1651, 1658, 1664, 1669, 1673, 1677,
         1681, 1684, 1687, 1689, 1691, 1693, 1694, 1696, 1697, 1698, 1699, 1699, 1699,
         1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699,
         1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699,
         1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699,
         1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699,
         1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699,
         1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699, 1699}
```

```
In[•]:= wealthseqvalue = Table[wealth[[wealthseq[[j]]]], {j, 1, 150}]
```

Out[•]=

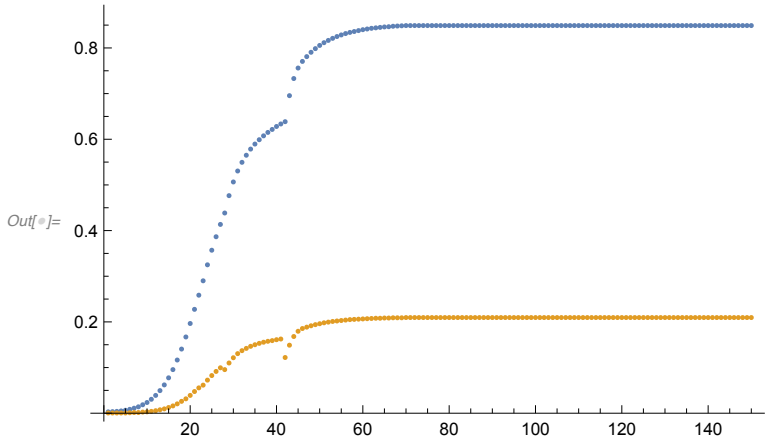
$$\begin{gathered}
\Big\{\frac{3}{1000}, \frac{7}{2000}, \frac{1}{250}, \frac{1}{200}, \frac{13}{2000}, \frac{17}{2000}, \frac{11}{1000}, \frac{7}{500}, \frac{37}{2000}, \frac{47}{2000}, \frac{61}{2000}, \frac{39}{1000}, \frac{99}{2000}, \frac{31}{500}, \\
\frac{31}{400}, \frac{191}{2000}, \frac{233}{2000}, \frac{281}{2000}, \frac{167}{1000}, \frac{393}{2000}, \frac{91}{400}, \frac{517}{2000}, \frac{29}{100}, \frac{13}{40}, \frac{357}{1000}, \frac{773}{2000}, \frac{827}{2000}, \\
\frac{877}{2000}, \frac{953}{2000}, \frac{1013}{2000}, \frac{1061}{2000}, \frac{1099}{2000}, \frac{113}{200}, \frac{1157}{2000}, \frac{1179}{2000}, \frac{599}{1000}, \frac{243}{400}, \frac{123}{200}, \frac{1243}{2000}, \frac{157}{250}, \\
\frac{1267}{2000}, \frac{1277}{2000}, \frac{1391}{2000}, \frac{733}{1000}, \frac{189}{250}, \frac{1541}{2000}, \frac{781}{1000}, \frac{1581}{2000}, \frac{1597}{2000}, \frac{1611}{2000}, \frac{1623}{2000}, \frac{1633}{2000}, \\
\frac{821}{1000}, \frac{33}{40}, \frac{1657}{2000}, \frac{1663}{2000}, \frac{417}{500}, \frac{209}{250}, \frac{419}{500}, \frac{21}{25}, \frac{1683}{2000}, \frac{843}{1000}, \frac{211}{250}, \frac{169}{200}, \frac{423}{500}, \frac{1693}{2000}, \\
\frac{339}{400}, \frac{106}{125}, \frac{1697}{2000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \\
\frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \\
\frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \\
\frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \\
\frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \\
\frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \\
\frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}, \frac{849}{1000}\Big\}
\end{gathered}$$

```
In[•]:= consumeseqvalue = Table[wealth[[consumecity[[wealthseq[[j]]]]]], {j, 1, 150}]

Out[•]= {1/2000, 1/2000, 1/2000, 1/2000, 1/2000, 1/1000, 3/2000, 3/2000, 1/400, 3/1000, 1/250, 11/2000, 3/400,
   19/2000, 1/80, 2/125, 41/2000, 13/500, 63/2000, 39/1000, 19/400, 111/2000, 123/2000, 29/400, 33/400, 183/2000, 199/2000,
   191/2000, 11/100, 243/2000, 261/2000, 137/1000, 71/500, 293/2000, 3/20, 153/1000, 311/2000, 63/400, 159/1000, 161/1000,
   13/80, 61/500, 149/1000, 21/125, 359/2000, 371/2000, 377/2000, 383/2000, 97/500, 49/250, 99/500, 399/2000, 201/1000,
   101/500, 203/1000, 51/250, 41/200, 411/2000, 103/500, 413/2000, 207/1000, 83/400, 26/125, 26/125, 417/2000, 417/2000,
   209/1000, 209/1000, 209/1000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000,
   419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000,
   419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000,
   419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000,
   419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000,
   419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000,
   419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000, 419/2000}
```

```
In[•]:= ListPlot[{wealthseqvalue[[1 ;; 150]], consumeseqvalue[[1 ;; 150]]}]

Out[•]=
```



```
In[•]:= Pmplus

In[•]:= Pmplus = {0.`, 0.005930281743703549`, 0.009234463859085721`, 0.011773976554838762`,
   0.014099487251438543`, 0.016170102622200328`, 0.01795581414859516`,
   0.019520221505479392`, 0.02093324930359534`, 0.022217736271688618`,
   0.023400755811054014`, 0.02449645995464045`, 0.025530709483697806`,
   0.026500812798609 5`, 0.027464070868584836`, 0.028384263549396473`,
```

```
0.029263942332487837`, 0.03011561378291005`, 0.030936663896034382`,
0.03172661672108168`, 0.03249343408651462`, 0.033235910431598736`,
0.033975044345079336`, 0.03469126195739745`, 0.035387012066060514`,
0.03606374664044014`, 0.03672187075737027`, 0.03736781906062557`,
0.03800048536973539`, 0.03862360408287924`, 0.039238575263430234`,
0.03984057236085586`, 0.04042958457715325`, 0.041004651868090186`,
0.04156874682384361`, 0.042123360902815425`, 0.04267233950961587`,
0.043216446499205335`, 0.043751839557030756`, 0.04427832354111373`,
0.04479469158904223`, 0.045302650477171955`, 0.04580156714566132`,
0.04629788174371504`, 0.046787428719535167`, 0.04727015942851741`,
0.047747207208909015`, 0.04821773115270 6035`, 0.048682316164038404`,
0.04913983805902386`, 0.04959624643539373`, 0.050046541925787114`,
0.05049142964390 6016`, 0.050929318354408865`, 0.051360930341994765`,
0.05178936619744208`, 0.05221418075616871`, 0.05263642705113214`,
0.05305349734048878`, 0.053465923295137066`, 0.05387393181280409`,
0.05427753850299134`, 0.05467653305964045`, 0.0550753253999824`,
0.05546911053793 3075`, 0.05586073796912806`, 0.05624711823995051`,
0.05662916174285579`, 0.05700702035285063`, 0.05738439878739138`,
0.05775769689997495`, 0.05812763446886479`, 0.05849389967561805`,
0.05885699083372664`, 0.05921769932354451`, 0.05957663522578391`,
0.05993307723635181`, 0.06028607952580942`, 0.06063563491510479`,
0.06098177411347157`, 0.061325128741244364`, 0.0616680876747763`,
0.06200863756356988`, 0.06234696096859509`, 0.06268233096918921`,
0.06301487173975161`, 0.0633445047866802`, 0.06367344748479926`,
0.06399976713825452`, 0.06432334874745191`, 0.06464478821858825`,
0.06496357955209672`, 0.06528021594786106`, 0.06559673216558495`,
0.06591062894083295`, 0.06622211493980597`, 0.06653111438696033`,
0.06683788600460708`, 0.06714328592801086`, 0.06744824778836686`,
0.06775076878612041`, 0.06805131276899826`, 0.06834943433937528`,
0.06864519355124417`, 0.06894057213828514`, 0.06923400152455172`,
0.06952545132900544`, 0.06981627322243754`, 0.07010538236704411`,
0.07039235589417606`, 0.07067863934336154`, 0.07096402790427166`,
0.07124700569577393`, 0.07152809656190477`, 0.07180736781340542`,
0.07208534787754617`, 0.07236326554483977`, 0.07263926446155057`,
0.07291308491715384`, 0.07318544376676726`, 0.07345580358564324`,
0.07372612157067797`, 0.07399492013812152`, 0.07426217333664162`,
0.07452832471541787`, 0.07479252652080783`, 0.07505586040220649`,
0.07531839794723796`, 0.07557922994847152`, 0.07583836850790868`,
0.07609628415756373`, 0.0763531129541617`, 0.07660969773416304`,
0.07686520439564415`, 0.07711884799244223`, 0.07737118811382207`,
0.07762197133819368`, 0.07787255809777013`, 0.07812171480119423`,
0.0783697526342943`, 0.07861642273919162`, 0.07886175140751867`,
0.07910689689310324`, 0.07935104515362648`, 0.07959418339257349`,
0.07983581000715936`, 0.08007625446761579`, 0.08031612615716908`,
```

0.08055541641187196`, 0.080793742464237`, 0.08103056917870673`,
0.08126629714710178`, 0.08150122143399323`, 0.08173578478456271`,
0.08196909095331469`, 0.0822013918300442`, 0.08243295025506887`,
0.08266330386088439`, 0.08289357479891651`, 0.08312239060154793`,
0.08335019018336016`, 0.08357668399665429`, 0.0838025676157904`,
0.08402827090535986`, 0.0842529826549084`, 0.08447686434731466`,
0.08469973327478372`, 0.08492147631669224`, 0.0851432142253723`,
0.08536378727826943`, 0.08558344151335448`, 0.08580229512248158`,
0.08602010753557837`, 0.08623787271121013`, 0.08645464316788816`,
0.08667025932521484`, 0.08688496224245813`, 0.08709905054298667`,
0.08731272938066653`, 0.08752589491738277`, 0.08773808843029668`,
0.08794935391348635`, 0.08815990283292212`, 0.08837006481604945`,
0.08857936725976787`, 0.08878759993902877`, 0.08899532508892055`,
0.08920250457331272`, 0.0894094150955034`, 0.08961653782403375`,
0.08982302906639392`, 0.09002854366593185`, 0.09023321849066734`,
0.0904371948019822`, 0.09064116161749347`, 0.09084441033785189`,
0.09104670251582679`, 0.09124807581539196`, 0.09144897493640174`,
0.09164943578035185`, 0.09184925028085197`, 0.09204824432669126`,
0.09224660108526066`, 0.09244456689997502`, 0.0926421173086942`,
0.09283872535946057`, 0.09303444774884759`, 0.0932296051109104`,
0.09342467801988426`, 0.09361909060319085`, 0.09381278749278754`,
0.09400564163002331`, 0.09419810677950949`, 0.09439028970805069`,
0.09458172773778772`, 0.09477231789264087`, 0.09496241358344526`,
0.09515229495653423`, 0.09534164116324355`, 0.09553018201992043`,
0.09571793657014256`, 0.09590533551348843`, 0.09609239884926901`,
0.09627883653532743`, 0.09646482010145277`, 0.09665003371930878`,
0.09683504512246927`, 0.09701969241592479`, 0.0972035463336367`,
0.09738677231532936`, 0.09756948517245659`, 0.0977519792518976`,
0.09793416611158137`, 0.09811546187091273`, 0.0982961256983066`,
0.0984766236085362`, 0.0986566392064278`, 0.09883604392594068`,
0.09901482076546832`, 0.09919318237999109`, 0.09937154121809699`,
0.09954922442881844`, 0.09972612144563886`, 0.09990242086823804`,
0.10007868463431047`, 0.10025444201856776`, 0.10042970530415617`,
0.10060444317827649`, 0.10077875032511752`, 0.10095297770737273`,
0.10112654106662704`, 0.10129948338400749`, 0.10147186430763472`,
0.10164415785082637`, 0.10181609333124558`, 0.1019874181959759`,
0.10215814627656833`, 0.10232866345836722`, 0.10249872946035438`,
0.10266838390092456`, 0.10283749415962654`, 0.10300620677442326`,
0.10317488689007867`, 0.10334328727778362`, 0.10351129230768001`,
0.10367876208641759`, 0.1038457262423932`, 0.10401258914099368`,
0.10417894315969631`, 0.10434470181214486`, 0.10451016601397052`,
0.10467543497064763`, 0.1048403940016521`, 0.10500487388419198`,
0.105168704835326`, 0.10533232920202859`, 0.10549571790167424`,
0.10565862379420878`, 0.10582113822219681`, 0.10598316613907964`,

```
0.10614514982255067`, 0.10630668319559967`, 0.10646768042966864`,
0.10662828096600237`, 0.10678875826948507`, 0.10694916822766327`,
0.10710921963549523`, 0.10726877835240876`, 0.1074277503982794`,
0.1075867207724969`, 0.10774523569223568`, 0.10790335555016675`,
0.10806111877215649`, 0.1082186238878434`, 0.1083759328659801`,
0.10853271768788561`, 0.10868902185159815`, 0.10884510149365884`,
0.1090009381626607`, 0.10915645614222286`, 0.10931155136776684`,
0.10946624355263757`, 0.10962087093886053`, 0.10977496389858897`,
0.10992867047766695`, 0.11008204933788275`, 0.11023539042166672`,
0.11038833460707104`, 0.11054087310789534`, 0.1106929131865268`,
0.11084493796477371`, 0.11099654799793349`, 0.11114776555998448`,
0.11129867467067277`, 0.11144941647057871`, 0.11159986839376931`,
0.11174995400594571`, 0.11189961675451776`, 0.11204910752023733`,
0.11219838361205042`, 0.11234733584636292`, 0.11249593000280264`,
0.11264546536602332`, 0.11279526682863257`, 0.11294475759435216`,
0.11309417851055067`, 0.11324324703462338`, 0.11339197464290618`,
0.11354024501459564`, 0.11368842624715664`, 0.11383611241962514`,
0.11398349688502807`, 0.1141305762721735`, 0.11427759152654493`,
0.11442419382064735`, 0.11457039263448716`, 0.1147163092840146`,
0.11486202079955435`, 0.11500740966560644`, 0.1151524728434233`,
0.1152972539030378`, 0.11544197031868167`, 0.11558626704532729`,
0.11573006438153785`, 0.11587373595869346`, 0.11601712262788696`,
0.1161602586197299`, 0.11630301949369679`, 0.11644560671056049`,
0.11658799497278186`, 0.1167299914745278`, 0.1168716231354402`,
0.11701315018017734`, 0.11715441695692018`, 0.1172954108676997`,
0.1174360422400422`, 0.11757653241471998`, 0.11771671608519012`,
0.11785651138754306`, 0.11799598715292058`, 0.11813544793061856`,
0.11827463088853409`, 0.11841348867929775`, 0.11855197169674671`,
0.11869042418867738`, 0.1188285068343261`, 0.11896625957014244`,
0.11910377074091968`, 0.11924118688220668`, 0.11937830939798777`,
0.11951507183164412`, 0.11965163133371794`, 0.11978799197334886`,
0.1199240676605995`, 0.12005984907680185`, 0.12019547639941554`,
0.1203310128747671`, 0.12046625677409833`, 0.1206011588121865`,
0.12073587278832687`, 0.12087045314740723`, 0.12100466052349838`,
0.12113859537532877`, 0.12127241421225285`, 0.12140609888250456`,
0.12153941760448356`, 0.1216723641598760`, 0.1218053054678359`,
0.12193795457134549`, 0.12207035689549872`, 0.12220248982828799`,
0.12233457064758221`, 0.12246638105479002`, 0.12259788536475474`,
0.12272912219122385`, 0.12286023467330001`, 0.12299106513148998`,
0.12312168256599705`, 0.12325209137507119`, 0.12338238240117774`,
0.12351237255209212`, 0.12364206283435188`, 0.1237716591037499`,
0.12390100953486144`, 0.1240301682499377`, 0.1241590134428116`,
0.12428781217398281`, 0.12441634033593274`, 0.12454457777417502`,
0.12467259351256767`, 0.12480052452838739`, 0.12492826686082503`,
```

0.12505579912889586`, 0.12518304598312993`, 0.12531028144670303`,
0.12543723590492312`, 0.125563870238711`, 0.12569036189872687`,
0.1258167156989766`, 0.12594287709959226`, 0.1260686942819482`,
0.1261944440361972`, 0.12632001376805688`, 0.12644530007952687`,
0.12657032083126482`, 0.1266953368313923`, 0.12682015343195807`,
0.12694472932426532`, 0.12706903360700567`, 0.12719324830658227`,
0.1273171899007169`, 0.12744086868239698`, 0.12756446867457596`,
0.12768794839926106`, 0.12781117507611506`, 0.12793417274159313`,
0.12805708028049526`, 0.12817979230277726`, 0.12830221976371636`,
0.12842446349401251`, 0.12854669008900185`, 0.12866870341933`,
0.12879044439867035`, 0.12891200124376906`, 0.12903347514616342`,
0.12915468536428693`, 0.12927575110062323`, 0.12939664908647663`,
0.12951746235392547`, 0.12963803554836967`, 0.12975834559202504`,
0.12987859531728926`, 0.12999861116825762`, 0.13011847802609983`,
0.13023808980828538`, 0.13035770134073882`, 0.1304770759152529`,
0.13059620516377507`, 0.13071518904957846`, 0.1308341384281465`,
0.1309529030406792`, 0.1310714560585227`, 0.13118982183367484`,
0.13130813405354572`, 0.13142621339157676`, 0.13154404711899084`,
0.1316618043176496`, 0.13177944383032933`, 0.1318969022784418`,
0.13201409700580985`, 0.13213125491952254`, 0.13224821582422208`,
0.1323651289240042`, 0.1324820529301622`, 0.1325989617795825`,
0.13271562381592067`, 0.13283219150218`, 0.132948712651798`,
0.1330650175843378`, 0.13318109054112398`, 0.13329707683154016`,
0.13341294039700602`, 0.13352852291322254`, 0.13364393642133185`,
0.1337593497663624`, 0.13387452357954044`, 0.133989456843212`,
0.13410430597194192`, 0.13421904118254538`, 0.13433355949342984`,
0.13444794001570898`, 0.1345622329645178`, 0.13467635720274898`,
0.13479022788989786`, 0.13490397266160614`, 0.13501765350391123`,
0.1351311265636427`, 0.13524442542038792`, 0.13535762982771793`,
0.13547069361183695`, 0.13558354623154728`, 0.13569621790338526`,
0.13580886071097126`, 0.13592132368777596`, 0.13603365947502621`,
0.13614580586242211`, 0.13625789116928955`, 0.136369695447823`,
0.13648135312876553`, 0.13659298151068305`, 0.13670445551328647`,
0.13681575043785676`, 0.13692686792668682`, 0.1370379651463257`,
0.13714885670015634`, 0.137259570188819`, 0.13737018373566784`,
0.13748072608524117`, 0.13759108393305697`, 0.13770122136392643`,
0.13781133776369014`, 0.1379212721268483`, 0.1380310348929462`,
0.1381406607891816`, 0.13825028090215002`, 0.13835970031864192`,
0.13846891687937785`, 0.13857805876897977`, 0.1386870877425518`,
0.13879595880255544`, 0.13890465639058705`, 0.13901428142867292`,
0.13912590981059045`, 0.13923749510477396`, 0.13934892787758196`,
0.13946008600630166`, 0.1395712034951317`, 0.13968210057050157`,
0.1397927954465168`, 0.13990340899336562`, 0.140013906196027`,
0.1401242022040844`, 0.14023431860384813`, 0.1403443694625518`,

```
0.1404541826795106`, 0.140563808575746`, 0.14067340956051527`,
0.1407827998268427`, 0.1408919840539746`, 0.1410011259435765`,
0.1411101107373764`, 0.14121884624888575`, 0.14132751048658018`,
0.1414360419932331`, 0.14154442118257438`, 0.1416526139852362`,
0.14176078686745253`, 0.14186873618684856`, 0.14197646363765207`,
0.14208417223319952`, 0.14219169981902358`, 0.14229904243895589`,
0.14240631049136593`, 0.14251343061098687`, 0.14262033348740424`,
0.1427271479690157`, 0.1428338462669299`, 0.14294036766227533`,
0.1430467342785074`, 0.14315307571022542`, 0.1432592272539345`,
0.14336515159158705`, 0.14347106174542493`, 0.14357674229033196`,
0.14368228947790218`, 0.1437877770085798`, 0.14389311316801745`,
0.14399824939842873`, 0.14410330548183897`, 0.14420823667456195`,
0.14431299415490498`, 0.1444176240420361`, 0.14452223420352509`,
0.14462661928860115`, 0.14473082812478458`, 0.14483500836548166`,
0.14493899098043878`, 0.14504279521721603`, 0.14514658804507918`,
0.14525022430400453`, 0.14535364698060838`, 0.14545702874292185`,
0.14556026748421608`, 0.14566333301173492`, 0.1457663085541592`,
0.1458691976984044`, 0.145971929691784`, 0.14607450376551967`,
0.14617702844855215`, 0.14627933881505756`, 0.14638151607940342`,
0.14648366963827844`, 0.14658565829183995`, 0.14668747362466136`,
0.14678925864948392`, 0.14689089349284087`, 0.1469923142607139`,
0.14709371152883235`, 0.1471949984345021`, 0.1472961166628969`,
0.1473971305723869`, 0.14749806061426718`, 0.14759879175522442`,
0.14769942662164412`, 0.1477999882022358`, 0.14790039743034666`,
0.14800065748888802`, 0.14810090929052047`, 0.148200998409196`,
0.1483009161286742`, 0.14840080553624274`, 0.1485005227324974`,
0.14860011432355863`, 0.1486996371607846`, 0.14879907631261904`,
0.148898324698751`, 0.1489974849719345`, 0.14909654593014138`,
0.14919544855344283`, 0.1492942501964356`, 0.14939300236325878`,
0.14949160380985932`, 0.1495900506858858`, 0.14968847138013236`,
0.14978671015412745`, 0.14988482127835492`, 0.1499829171817748`,
0.15008086816072236`, 0.15017863991930008`, 0.15027638857731485`,
0.15037398464741264`, 0.15047142610089598`, 0.15056883117520112`,
0.15066615673141537`, 0.15076331697253997`, 0.15086038206092578`,
0.150957378399427`, 0.1510542085954833`, 0.15115093723338535`,
0.15124760361669978`, 0.15134413577058475`, 0.15144053143258643`,
0.15153688397111634`, 0.15163306611331048`, 0.15172913221459938`,
0.15182517095879228`, 0.15192107802644306`, 0.15201686170839213`,
0.15211260160617185`, 0.15220820229968204`, 0.15230363476292996`,
0.1523990517577891`, 0.15249435744504541`, 0.15258953227346947`,
0.15268462961070925`, 0.15277964768687713`, 0.15287447203605237`,
0.1529692529069746`, 0.15306394241193144`, 0.15315851205851`,
0.15325297960166676`, 0.153347424243694`, 0.1534417267872499`,
0.15353588408965607`, 0.15362999708190947`, 0.15372396633933053`,
```

0.15381781643764086`, 0.15391165430821468`, 0.15400536692523567`,
0.154098918118798`, 0.15419246400044995`, 0.1542858665797797`,
0.154379140817813`, 0.15447238542213632`, 0.15456553243739207`,
0.1546585497438145`, 0.15475149596310867`, 0.15484435223832058`,
0.15493703478195 75`, 0.15502968546253876`, 0.1551222655676095`,
0.1552147057514029`, 0.1553070636946212`, 0.15539937923077615`,
0.15549157263175573`, 0.155583640594983`, 0.15567566688213516`,
0.15576761533133887`, 0.15585943539381514`, 0.15595121609140586`,
0.15604290928955858`, 0.15613445910893528`, 0.1562259552131602`,
0.15631737110708663`, 0.1564087109256455`, 0.15649993260028308`,
0.15659114674223706`, 0.15668222895663725`, 0.15677319686104063`,
0.15686413163152543`, 0.156954952915239`, 0.1570456853914813`,
0.15713634334186424`, 0.1572269571457238`, 0.15731744207624931`,
0.15740782571929846`, 0.15749817380293518`, 0.15758840413768352`,
0.15767853928567158`, 0.15776865109636845`, 0.15785867100144457`,
0.15794855270310318`, 0.15803839511943343`, 0.1581281461980184`,
0.15821781119126285`, 0.158307386614986`, 0.15839691836353187`,
0.1584863532963081`, 0.15857569622460704`, 0.15866500702200542`,
0.15875426382729182`, 0.15884346042671998`, 0.1589325310412771`,
0.15902157954388552`, 0.15911054515137116`, 0.15919940284495432`,
0.15928819135026995`, 0.15937696537881474`, 0.15946560846349678`,
0.1595541392356709`, 0.15964263893630037`, 0.15973103731688182`,
0.15981934113682522`, 0.15990761640733697`, 0.1599958068080644`,
0.16008385365976358`, 0.16017187562807614`, 0.16025979723565692`,
0.16034763328138413`, 0.16043540411558407`, 0.16052315850488644`,
0.16061076323760612`, 0.16069828507502668`, 0.16078576846004866`,
0.16087314425458524`, 0.16096042275769118`, 0.16104769770551935`,
0.16113488705140486`, 0.16122193287482348`, 0.16130896301069209`,
0.16139590373924673`, 0.16148274938717594`, 0.16156953675974065`,
0.16165628485594838`, 0.16174292879541893`, 0.16182947542492088`,
0.16191596089459429`, 0.16200235336647284`, 0.16208866124528748`,
0.16217496482608723`, 0.16226117163914935`, 0.1623472589491825`,
0.16243333004235 46`, 0.16251929395592501`, 0.162605168852573`,
0.16269100509833878`, 0.16277678374027527`, 0.16286245071249367`,
0.16294805402278995`, 0.1630336075262524`, 0.16311903726916402`,
0.16320440953012524`, 0.16328975220586964`, 0.16337501568267554`,
0.16346016202572544`, 0.16354530509816845`, 0.16363034931370435`,
0.16371527704069982`, 0.1638001927605971`, 0.16388503585059555`,
0.1639697864563564`, 0.1640544766352981`, 0.16413908087370005`,
0.16422359604363834`, 0.16430806246928306`, 0.16439250252467494`,
0.16447686267935188`, 0.16456112176847706`, 0.16464536620499226`,
0.16472953486772876`, 0.16481358273750182`, 0.16489760692599364`,
0.1649815890306677`, 0.16506548984808023`, 0.16514929550701338`,
0.1652330958617517`, 0.1653167916490751`, 0.1654004103469674`,

```
0.16548399917257522`, 0.1655675401865389`, 0.1656510024585165`,
0.1657343761252015`, 0.165817731309568`, 0.16590096649247205`,
0.16598414218283658`, 0.16606730234356185`, 0.16615039589446792`,
0.1662333800153664`, 0.1663163283020379`, 0.16639922083559278`,
0.16648201591627698`, 0.16656475394011727`, 0.16664748368425542`,
0.16673013968226544`, 0.16681269600119378`, 0.16689522535310705`,
0.1669776602503865`, 0.16706002083948981`, 0.16714234309041895`,
0.16722463029417844`, 0.16730682166498612`, 0.16738893836626148`,
0.16747104769727963`, 0.1675533581870171`, 0.16763603989269027`,
0.16771862556692035`, 0.16780115491883363`, 0.1678836274265191`,
0.16796602246967587`, 0.1680483447206O5`, 0.16813328855188342`,
0.16822081038930398`, 0.16830821622181633`, 0.1683954911696445`,
0.16848274161662471`, 0.16856982078292546`, 0.16865685091879407`,
0.16874375540745734`, 0.16883054278002205`, 0.16891732374869883`,
0.16900395811368848`, 0.16909050474319043`, 0.16917698265819892`,
0.1692633044158265`, 0.16934961229464113`, 0.16943580220201154`,
0.16952187329518364`, 0.16960791068329506`, 0.1696937944689232`,
0.16977963071468893`, 0.1698653499886515`, 0.1699509532989478`,
0.17003654853547687`, 0.17012200200186117`, 0.1702073742628224`,
0.17029267801609713`, 0.17037783471698484`, 0.17046297778942782`,
0.17054799215417882`, 0.17063290787407615`, 0.17071781309945466`,
0.17080256409913996`, 0.17088725427808166`, 0.17097184512136054`,
0.1710563115470053`, 0.17114075649957344`, 0.17122509353457943`,
0.17130933797109463`, 0.17139350313200094`, 0.17147753395634371`,
0.17156155814483554`, 0.17164546530674643`, 0.17172927096567958`,
0.17181305747251996`, 0.1718966953483221`, 0.1719802841739299`,
0.1720637700442877`, 0.17214714371097267`, 0.17223050507298582`,
0.17231374131486693`, 0.1723969014755922`, 0.17248000748136869`,
0.17256296296940318`, 0.1726459112560747`, 0.17272874053282403`,
0.17281147855666432`, 0.17289419990114144`, 0.1729768042147533`,
0.17305933356666658`, 0.17314177241431322`, 0.17322409466524236`,
0.17330639425433825`, 0.17338858573897456`, 0.17347070244024992`,
0.1735527800724759`, 0.17363470740327078`, 0.17371662008695132`,
0.1737984047886576`, 0.17388011496786446`, 0.17396179564805261`,
0.1740433660062112`, 0.1741248751754536`, 0.17420630720630523`,
0.17428761684179972`, 0.1743688974115613`, 0.17445007885249778`,
0.1745311904124799`, 0.17461225460217436`, 0.17469319157809737`,
0.1747741065031269`, 0.17485490623525526`, 0.17493562594851478`,
0.17501631291237296`, 0.17509689050732904`, 0.17517741641491585`,
0.17525786919961828`, 0.17533820269083034`, 0.1754185327954365`,
0.17549872845411216`, 0.17557887090172766`, 0.1756589657582192`,
0.1757389431105864`, 0.17581889587113742`, 0.17589873968084213`,
0.17597850409488264`, 0.17605822517871747`, 0.1761378498415157`,
0.17621742723388376`, 0.17629693943071345`, 0.1763763333462758`,
```

0.17645572502635026`, 0.17653497741102314`, 0.17661418467297513`,
0.1766933434869823`, 0.17677239060831218`, 0.17685141473135105`,
0.17693034220226084`, 0.1770091844508755`, 0.17708798575373152`,
0.17716668355985743`, 0.17724534518405208`, 0.17732393789411038`,
0.177402420129636`, 0.17748090171138467`, 0.17755926992117313`,
0.17763757398975386`, 0.17771581781701545`, 0.17779396365521627`,
0.17787209076477134`, 0.17795012161542184`, 0.17802807296028297`,
0.1781059866922877`, 0.17818379490499864`, 0.17826157166612305`,
0.17833927403095984`, 0.17841687737613904`, 0.17849447067239532`,
0.1785719544342591`, 0.17864938551832332`, 0.17872675649670813`,
0.17880404203614308`, 0.178881302001162`, 0.17895847395499356`,
0.17903556393047268`, 0.1791126201263118`, 0.17918956458843754`,
0.1792664856915109`, 0.17934334705070326`, 0.1794201003863223`,
0.17949684416832523`, 0.17957347602177845`, 0.17965006268289724`,
0.17972659176208539`, 0.17980302955921257`, 0.1798794506269693`,
0.17995579019897529`, 0.18003204674287046`, 0.18010827048380712`,
0.1801843868370755`, 0.1802604799151465`, 0.18033650643014526`,
0.18041243708913757`, 0.18048835883910444`, 0.18056416642152895`,
0.18063993569706427`, 0.18071564286887512`, 0.18079125207290794`,
0.18086686098964888`, 0.1809423875959685`, 0.18101783716778033`,
0.1810932508441705`, 0.181168558157226`, 0.18124384938733518`,
0.18131905888648403`, 0.18139419276763397`, 0.1814693256789506`,
0.18154434004364783`, 0.18161931755825156`, 0.18169422185985568`,
0.18176904398014557`, 0.18184386273465125`, 0.18191860388683578`,
0.18199327157501097`, 0.18206789953113708`, 0.18214241870022418`,
0.18221693290859453`, 0.18229135775676097`, 0.18236571942788915`,
0.1824400718531352`, 0.182514308754386`, 0.18258851882122637`,
0.18266265121439595`, 0.18273671060043117`, 0.18281075729298196`,
0.1828847250700385`, 0.18295863468941362`, 0.18303250741322263`,
0.1831062713488442`, 0.18318003210649836`, 0.18325370347715098`,
0.18332731626894655`, 0.18340090113112587`, 0.18347439968381585`,
0.18354786539666554`, 0.18362125688982364`, 0.18369457640181508`,
0.18376787682027976`, 0.18384108935895052`, 0.1839142635394687`,
0.1839873924241617`, 0.1840604221340093`, 0.1841334482325539`,
0.18420638213665913`, 0.18427926822817461`, 0.18435210739052071`,
0.18442487071399355`, 0.1844976140311672`, 0.18457026598043888`,
0.18464286735902702`, 0.18471543323469677`, 0.18478791573389938`,
0.18486037600153613`, 0.18493278683271805`, 0.18500510680902557`,
0.18507742424377352`, 0.18514967540530514`, 0.18522185701907704`,
0.1852940375157736`, 0.185366164362663`, 0.18543821257231868`,
0.1855102543933252`, 0.18558221540791864`, 0.18565412205932552`,
0.1857260260008696`, 0.1857978783747417`, 0.18586965785995957`,
0.18594142471067854`, 0.1860131256821183`, 0.1860847668159901`,
0.1861563973570318`, 0.1862279752786262`, 0.18629949238310095`,

```
0.18637098738822294`, 0.1864424079408783`, 0.1865137756712495`,
0.18658513590691658`, 0.1866564416840794`, 0.1867276788889579`,
0.18679890511443795`, 0.1868700743159068`, 0.18694117182620149`,
0.18701226479365976`, 0.1870833106740275`, 0.18715430598509342`,
0.18722526643968518`, 0.187296180383587`, 0.18736701401710948`,
0.18743784269707117`, 0.18750862692912887`, 0.18757934868033177`,
0.1876500463170706`, 0.18772068471816278`, 0.18779125659725127`,
0.18786182391543327`, 0.18793233790110234`, 0.1880028095392218`,
0.18807324725685862`, 0.18814363752702687`, 0.18821395428540047`,
0.18828426311393448`, 0.18835452060861096`, 0.1884247345567975`,
0.18849491520118572`, 0.18856504177827818`, 0.18863510599551753`,
0.18870515915431404`, 0.18877516028495903`, 0.18884511656489966`,
0.18891504293033676`, 0.1889849331352304`, 0.18905474674025521`,
0.18912454699832323`, 0.18919430354365346`, 0.18926400486093733`,
0.18933367969146309`, 0.18940331324171394`, 0.18947286378700406`,
0.18954241386372822`, 0.18961191515392647`, 0.18968135915705467`,
0.1897507851477076`, 0.18982017697934572`, 0.18988948798519845`,
0.1899587905515752`, 0.1900280419040705`, 0.19009723823582703`,
0.19016641803386075`, 0.190235571063346`, 0.19030464211554746`,
0.19037369979538196`, 0.19044271361126197`, 0.19051166287273472`,
0.1905805990787957`, 0.19064950044953494`, 0.19071833893408185`,
0.19078715430514714`, 0.1908559270057721`, 0.19092464484985314`,
0.1909933400191216`, 0.19106200894061265`, 0.19113061409336168`,
0.19119918968852137`, 0.19126772375905474`, 0.1913362045436103`,
0.1914046611869052`, 0.19147307889391463`, 0.19154144592872302`,
0.19160978423701905`, 0.1916780922375556`, 0.19174634022320042`,
0.19181456080805026`, 0.19188274529482063`, 0.19195089268074872`,
0.1920189961484556`, 0.19208707415474588`, 0.1921550923305264`,
0.19222307928220703`, 0.19229103405640297`, 0.19235893853741115`,
0.1924268095690576`, 0.1924946579660955`, 0.19256244568463637`,
0.192630201387177`, 0.1926979353848008`, 0.19276560223395112`,
0.19283324319331074`, 0.19290086795143935`, 0.1929684368316613`,
0.19303596362882008`, 0.19310346966428346`, 0.19317089925573455`,
0.1932383124667864`, 0.19330570928577384`, 0.19337304658499938`,
0.19344034678120922`, 0.19350762524011741`, 0.1935748356396471`,
0.19364202338750736`, 0.19370918947380833`, 0.19377630675739224`,
0.1938433826186784`, 0.19391045161493842`, 0.1939774425780348`,
0.1940444071098604`, 0.1941113640900449`, 0.19417828501979403`,
0.19424515752956123`, 0.1943120112844317`, 0.19437883747512788`,
0.1944456152345023`, 0.19451235925507676`, 0.19457910278094265`,
0.19464581091868227`, 0.19471246584453622`, 0.19477909968484552`,
0.1948457040492699`, 0.1949122776313305`, 0.1949788151853919`,
0.19504533987914183`, 0.19511183171707572`, 0.19517829358948433`,
0.19524471463040233`, 0.19531113071219003`, 0.19537750053676387`,
```

0.1954438435754926`, 0.19551015157556542`, 0.19557644648091518`,
0.19564269917456467`, 0.19570890880215575`, 0.19577510924646047`,
0.1958412679911855`, 0.19590740357480535`, 0.19597349977821474`,
0.19603959318844638`, 0.1961056418792302`, 0.19617162877287994`,
0.1962376114885327`, 0.19630357043330943`, 0.19636948575357235`,
0.1964353666439747`, 0.19650124550158515`, 0.19656706323813`,
0.19663285711550071`, 0.19669863251188038`, 0.1967643886149413`,
0.19683010563995904`, 0.1968957760474765`, 0.19696142112269482`,
0.19702704466830792`, 0.19709262521783663`, 0.1971581911376336`,
0.19722373130235082`, 0.19728922035356705`, 0.19735468228281117`,
0.19742013263468036`, 0.1974855551886769`, 0.1975509492328887`,
0.1976163076648173`, 0.19768163140904504`, 0.1977469139338857`,
0.1978121693578493`, 0.1978774198302633`, 0.19794263508620008`,
0.19800780081806663`, 0.19807295371957168`, 0.19813807295758018`,
0.198203161465441`, 0.19826822334690983`, 0.19833327420766084`,
0.1983982932062788`, 0.19846325370654752`, 0.1985282030044886`,
0.1985931351432033`, 0.1986580375548257`, 0.19872289148686514`,
0.19878773969622096`, 0.19885255220229564`, 0.19891732738843182`,
0.19898207497974799`, 0.1990468112588834`, 0.19911152206023286`,
0.19917618608852145`, 0.19924083352870448`, 0.19930546018965412`,
0.19937004063691893`, 0.19943458838927536`, 0.19949913279271597`,
0.199563632060048`, 0.19962809570481044`, 0.19969254422908556`,
0.19975696728835543`, 0.19982137161204042`, 0.19988572996011417`,
0.19995626178877263`, 0.20003105891806147`, 0.20010572660623666`,
0.2001803206593541`, 0.20025483486772444`, 0.2003292585102518`,
0.20040362018138003`, 0.20047787482379076`, 0.20055208489063114`,
0.2006261719217065`, 0.20070023130774173`, 0.20077414092711687`,
0.20084803717638108`, 0.20092253090975887`, 0.2009970069805208`,
0.20107136865164899`, 0.2011456738150244`, 0.2012198838818648`,
0.20129402589017825`, 0.20136808527621347`, 0.20144205091293693`,
0.20151596053231208`, 0.20158976335147882`, 0.20166352410913296`,
0.20173717764805632`, 0.20181079043985192`, 0.20188425635525284`,
0.20195772206810253`, 0.20203104158009397`, 0.20210434696048288`,
0.20217752114100104`, 0.2022506780949547`, 0.2023237078048023`,
0.2023967284255559`, 0.20246961451707135`, 0.20254244660372567`,
0.20261518992089933`, 0.20268787218317535`, 0.2027604735617635`,
0.20283300891710945`, 0.2029054691847462`, 0.20297786053642647`,
0.203050180512734`, 0.20312238522031345`, 0.20319456571701006`,
0.20326663973827314`, 0.2033386815592796`, 0.2034106155007518`,
0.20348251944229587`, 0.20355430389744547`, 0.20362607074816444`,
0.20369770128920614`, 0.2037693149184558`, 0.20384080992357778`,
0.20391229310121559`, 0.20398365333688268`, 0.2040549950383817`,
0.20412622126386176`, 0.2041974104526385`, 0.20426850342009678`,
0.2043395475624079`, 0.20441050801699967`, 0.20448140902483805`,

```
0.20455223770479974`, 0.20462299661842634`, 0.20469369425516518`,
0.2047643121036272`, 0.2048348794218092`, 0.2049053681870826`,
0.20497580590471942`, 0.20504615035255347`, 0.20511645918108748`,
0.2051866662656185`, 0.2052568469100067`, 0.20532692357461196`,
0.20539697673340848`, 0.2054669101147262`, 0.2055368364801633`,
0.20560663673823132`, 0.20567642836519986`, 0.20574610319572562`,
0.20581576723164713`, 0.2058853178301469`, 0.20595486790687104`,
0.20602429389752397`, 0.20609368690092245`, 0.2061629894672992`,
0.20623225379457313`, 0.20630143359260686`, 0.2063705788199399`,
0.2064396364997744`, 0.20650867219460425`, 0.20657760840066525`,
0.20664648238785716`, 0.20671529775892247`, 0.20678405391963256`,
0.20685274908890106`, 0.20692138427594792`, 0.20698995987110763`,
0.2070584709289095`, 0.2071269275722044`, 0.20719528930414705`,
0.2072636276124431`, 0.20733188240621084`, 0.20740010299106065`,
0.20746824290566246`, 0.20753634637336932`, 0.20760436345961808`,
0.2076723504112987`, 0.20774023092840413`, 0.20780810196005056`,
0.20787586691228466`, 0.2079436226148253`, 0.20801126717688806`,
0.20807890813624771`, 0.2081464349334065`, 0.2082139542726652`,
0.20828136748371706`, 0.20834877906938915`, 0.208416079265599`,
0.20848337053656255`, 0.2085505582844228`, 0.20861773143782908`,
0.20868480729911526`, 0.2087518645255611`, 0.20881882905738672`,
0.20888577769588268`, 0.20895263145075316`, 0.20901945613488182`,
0.2090861996607477`, 0.20915291094987454`, 0.20921954479018384`,
0.20928615323728517`, 0.2093526779310351`, 0.20941915546204737`,
0.20948557154383507`, 0.20955193492341687`, 0.20961824292348968`,
0.20968450274024034`, 0.20975070318454506`, 0.20981687002067198`,
0.20988296343090362`, 0.2099489953448749`, 0.21001498223852463`,
0.2100809096706424`, 0.2101467905610448`, 0.21021261627266363`,
0.2102783916690433`, 0.21034411841584696`, 0.21040978882336442`,
0.21047537557961854`, 0.21054094149941555`, 0.21060643987512762`,
0.21067190180437173`, 0.2107373011609541 8`, 0.21080265959288277`,
0.21086794928672664`, 0.21093320471069027`, 0.21099837463848747`,
0.21106352753999255`, 0.21112860942594563`, 0.21119366028669664`,
0.21125864461276067`, 0.21132359391070174`, 0.21138847115385548`,
0.2114533193632113`, 0.21151808406426026`, 0.21158283165557643`,
0.21164749569061225`, 0.21171214313079528`, 0.21177670437898571`,
0.21184125213134208`, 0.21190570846676582`, 0.21197015699104096`,
0.21203451872285445`, 0.21209886847527076`, 0.21216312806056603`,
0.2122273794938606`, 0.21229154073935477`, 0.21235569430281664`,
0.21241976101076337`, 0.21248381715027`, 0.21254778648151817`,
0.2126117456395718`, 0.21267560825533496`, 0.2127394689647705`,
0.2128032354741013`, 0.21286700158248759`, 0.2129306871066871`,
0.21299435794217383`, 0.21305793353316926`, 0.21312149706669373`,
0.21318497783934892`, 0.2132484497940328`, 0.21331183617133034`,
```

0.21337522148503868`, 0.21343852509169822`, 0.21350181749348524`,
0.21356501633650565`, 0.21362820522628184`, 0.2136913109242086`,
0.21375441271927298`, 0.2138174262359234`, 0.2138804391993899`,
0.21394336324997634`, 0.21400628388660767`, 0.21406911260105138`,
0.2141319202431728`, 0.21419465743712923`, 0.2142573861334218`,
0.21432003220567414`, 0.21438267535942004`, 0.21444523070586374`,
0.21450778171709295`, 0.214570246730765`, 0.21463269891253942`,
0.21469507398364723`, 0.21475744523010876`, 0.21481973074605848`,
0.2148820134667469`, 0.21494420981217155`, 0.21500639641329133`,
0.2150685039700785`, 0.21513060786411123`, 0.21519262701143044`,
0.2152546380230335`, 0.2153165691373632`, 0.21537849116338387`,
0.21544033461853812`, 0.21550217155225684`, 0.21556392771941166`,
0.21562568040834437`, 0.2156873496560636`, 0.21574901217267578`,
0.2158105948669369`, 0.21587217335393155`, 0.215933673950969`,
0.21599517045518843`, 0.21605658113024648`, 0.21611798696293827`,
0.21617931216720393`, 0.2162406273825407`, 0.216301867471896`,
0.21636310395895791`, 0.21642427360425232`, 0.21648542893211636`,
0.2165464998494693`, 0.21660755805394946`, 0.21666854490935583`,
0.21672952712313254`, 0.2167904342177227`, 0.21685133735735465`,
0.21691217020157347`, 0.21697298996923378`, 0.2170337267063784`,
0.21709445460153945`, 0.21715513410341108`, 0.21721578814917158`,
0.21727643355619558`, 0.2173370385219651`, 0.21739761021317072`,
0.21745816786271283`, 0.21751869480029323`, 0.2175791929728989`,
0.21763968264409836`, 0.21770013704468927`, 0.21776056221941176`,
0.21782097020289481`, 0.21788135883956616`, 0.21794171541968282`,
0.21800204204550158`, 0.21806234857402867`, 0.2181226354511364`,
0.2181828810471264`, 0.21824312278198327`, 0.21830332376273026`,
0.21836349913058561`, 0.2184236640223866`, 0.21848380052701533`,
0.21854390061867995`, 0.2186039851297563`, 0.2186640464316988`,
0.21872409013479702`, 0.21878409458645812`, 0.21884408626739318`,
0.21890404021968407`, 0.21896396493110437`, 0.21902388839789982`,
0.21908378706270662`, 0.21914363270529266`, 0.21920347799353151`,
0.2192632953439456`, 0.21932308736995274`, 0.21938285354997383`,
0.2194426084533981`, 0.2195023146145681`, 0.21956200199925896`,
0.21962168723669964`, 0.21968134342217886`, 0.2197409558040931`,
0.2198005647042841`, 0.219860139771833`, 0.21991968646266086`,
0.21997921718714414`, 0.22003872335839886`, 0.22009819405561376`,
0.22015764691116188`, 0.2202170931246464`, 0.22027650139240162`,
0.220335876683786`, 0.2203952490550768`, 0.22045458801196155`,
0.22051389777342545`, 0.22057319580343468`, 0.22063246321359128`,
0.2206916984983018`, 0.22075091956775947`, 0.22081013159514704`,
0.22086929862362079`, 0.22092844303140347`, 0.22098757575050557`,
0.2210466792341581`, 0.22110576195476506`, 0.22116482999781978`,
0.22122386034281716`, 0.22128286603649916`, 0.22134185800986095`,

```
0.22140082868435557`, 0.2214597708493234`, 0.2215186870461323`,
0.22157758392363638`, 0.22163645943122867`, 0.2216953044511648`,
0.22175414516268302`, 0.22181295567837025`, 0.22187172363958574`,
0.22193048915521432`, 0.2219892290733071`, 0.22204793994592892`,
0.22210663055322444`, 0.2221652954604362`, 0.22222394127922557`,
0.22228255726391652`, 0.22234116912086516`, 0.22239975092494782`,
0.22245829257095082`, 0.2225168322702625`, 0.2225753528103658`,
0.2226338317749849`, 0.22269229936442078`, 0.22275074675523177`,
0.2228091658081186`, 0.22286755962132823`, 0.2229259418180008`,
0.22298429154301638`, 0.22304261185857638`, 0.22310092923004354`,
0.2231592288871626`, 0.22321748422937476`, 0.223275731324113`,
0.22333395452274374`, 0.2233921474845697`, 0.22345032163358053`,
0.22350849149633406`, 0.22356661153095442`, 0.22362471300761408`,
0.22368280990062928`, 0.22374088276136125`, 0.22379892379884922`,
0.22385695287483054`, 0.2239149468788203`, 0.22397292323954138`,
0.22403088018482875`, 0.2240888279968589`, 0.22414673360163415`,
0.2242046186845382`, 0.2242624944190484`, 0.22432034419156646`,
0.22437815809302183`, 0.22443597158019385`, 0.22449375240957428`,
0.22455151140545965`, 0.2246092535619059`, 0.22466698284103942`,
0.224724675672658`, 0.224782346761754`, 0.22484001122636363`,
0.2248976445227881`, 0.2249552448062925`, 0.22501284223292878`,
0.22507040982749754`, 0.22512795776604735`, 0.22518548750411596`,
0.22524299218861674`, 0.22530046335904894`, 0.22535792281024825`,
0.22541537388236008`, 0.22547280508718456`, 0.22553019450850545`,
0.2255875756766807`, 0.22564493166332122`, 0.22570226425325182`,
0.22575958390012288`, 0.22581687768178596`, 0.22587413549273033`,
0.22593138561903117`, 0.22598862390861096`, 0.22604583821927815`,
0.22610301907735247`, 0.22616019936284099`, 0.22621734623030554`,
0.22627446393943662`, 0.22633157578010532`, 0.22638866632192572`,
0.22644571639373495`, 0.22650275946630877`, 0.22655979103133383`,
0.22661678634410204`, 0.22667376089639432`, 0.2267307286662043`,
0.22678766625408148`, 0.22684458460610432`, 0.22690149088444372`,
0.2269583698996043`, 0.22701522106984184`, 0.22707205931908456`,
0.22712888598660877`, 0.22718567313453397`, 0.22724244359807616`,
0.22729920034994808`, 0.22735593216227618`, 0.22741264718747167`,
0.2274693501072615`, 0.22752602434681618`, 0.22758267234162566`,
0.22763930795817544`, 0.2276959285338948`, 0.22775252939506346`,
0.22780909794746151`, 0.22786564510707513`, 0.22792217969967532`,
0.22797868513737488`, 0.22803518686329724`, 0.2280916658532226`,
0.228148101200125`, 0.22820453633584725`, 0.22826095799028331`,
0.22831734765278433`, 0.2283737164331929`, 0.22843007920068328`,
0.22848640927420388`, 0.22854271412572566`, 0.22859901678432942`,
0.22865528856161818`, 0.22871153225995416`, 0.22876776902889556`,
0.22882398976595142`, 0.22888017790290605`, 0.2289363490129724`,
```

0.22899250859702427`, 0.2290486460691047`, 0.22910475591807494`,
0.22916086159870946`, 0.2292169320835488`, 0.22927297925174864`,
0.22932901973106123`, 0.2293850515026561`, 0.2294410399852288`,
0.2294970154900071`, 0.22955297632511465`, 0.22960891482532939`,
0.2296648272403302`, 0.22972073799605008`, 0.22977661325244136`,
0.22983247016352676`, 0.2298883163943631`, 0.22994414709674127`,
0.2299999433571661`, 0.23005572528600313`, 0.230111490356367`,
0.2301672343397317`, 0.23022295218817349`, 0.23027866654158682`,
0.23033435110341913`, 0.23039001331030814`, 0.23044566729868876`,
0.23050130535273763`, 0.23055691557465452`, 0.23061250592204827`,
0.23066808437254963`, 0.23072364303802528`, 0.23077917251447275`,
0.23083469943870427`, 0.2308902042128571`, 0.23094567719742704`,
0.2310011409150812`, 0.23105660102340936`, 0.23111203290929352`,
0.23116744240797354`, 0.2312228431344053`, 0.231278214681049`,
0.2313335761844117`, 0.2313889141337558`, 0.23144423858044658`,
0.23149953826357164`, 0.23155481364875247`, 0.2316100838502962`,
0.23166534488581875`, 0.23172057431201282`, 0.2317757873447538`,
0.2318309949421835`, 0.23188617094180544`, 0.2319413300712994`,
0.2319964809621324`, 0.23205160925410992`, 0.2321067135170186`,
0.23216180247529344`, 0.23221687976933045`, 0.23227193702868412`,
0.23232697081632203`, 0.23238199805021575`, 0.23243700636456283`,
0.23249198860288622`, 0.2325469543194121`, 0.23260191379308867`,
0.23265684579245763`, 0.2327117501974745`, 0.23276665256268994`,
0.2328215317533285`, 0.2328763942906582`, 0.23293123758887924`,
0.2329860741381805`, 0.23304088471600104`, 0.23309566711100277`,
0.2331504491821058`, 0.23320521428141283`, 0.23325995242233066`,
0.23331467411656182`, 0.23336938760548032`, 0.23342407035748544`,
0.23347873901546942`, 0.2335334002102595`, 0.23358804388891086`,
0.23364266700798925`, 0.23369726790355738`, 0.2337518620494412`,
0.23380643452979666`, 0.2338609827082672`, 0.23391552350373052`,
0.2339700466162801`, 0.234024538308712`, 0.23407901920209426`,
0.23413349584490856`, 0.23418794848489294`, 0.23424237521158803`,
0.23429679639982784`, 0.23435119997703766`, 0.23440557910387388`,
0.2344599407828331`, 0.23451429684959824`, 0.23456862646395596`,
0.2346229319011542`, 0.23467723426562626`, 0.23473151567021583`,
0.23478577816586907`, 0.23484002140958685`, 0.23489425763438104`,
0.23494847633997631`, 0.23500266572925718`, 0.23505685004490137`,
0.23511102143188936`, 0.2351651638794129`, 0.23521928945861975`,
0.23527340661259394`, 0.23532750344462844`, 0.23538157867228465`,
0.23543564570565406`, 0.23548969742128714`, 0.2355437294376924`,
0.23559774020816032`, 0.23565174888526352`, 0.23570573609457124`,
0.23575970214493813`, 0.23581365265432555`, 0.2358675918166139`,
0.23592151950585108`, 0.23597542332586594`, 0.2360293158550748`,
0.23608319992557725`, 0.23613706609803267`, 0.23619090806757367`,

```
0.23624474280313568`, 0.23629856954649203`, 0.2363523725255678`,
0.23640615101258006`, 0.23645992814002878`, 0.2365136894668367`,
0.23656742957113597`, 0.23662115267835895`, 0.23667487238223753`,
0.23672856911858628`, 0.23678224986293445`, 0.23683591232680273`,
0.23688957283894363`, 0.23694320910708555`, 0.23699681906930403`,
0.2370504244757461`, 0.23710402156917992`, 0.23715760046153614`,
0.23721115425620531`, 0.23726470278683648`, 0.2373182373002916`,
0.23737175527204257`, 0.23744491218113664`, 0.23752582710616618`,
0.2376065468194257`, 0.2376870727270125`, 0.2377674062182246`,
0.2378475486658401`, 0.2379275014263911`, 0.2380072658404316`,
0.23808684323279966`, 0.23816623491287411`, 0.23824544217482607`,
0.23832446629786497`, 0.23840330854647962`, 0.23848197017067427`,
0.23856045240619989`, 0.2386387564747806`, 0.23871688358433568`,
0.23879483492919684`, 0.23887261169032126`, 0.23895021503550046`,
0.23902764611956467`, 0.2391049060845836`, 0.2391819960600627`,
0.23925891716313608`, 0.23933567049875512`, 0.2394122571598739`,
0.23948867822763065`, 0.23956493477152582`, 0.23964102784959684`,
0.23971695850858915`, 0.23979272778412447`, 0.2398683367008654`,
0.23994378627267723`, 0.24001907750278642`, 0.24009421138393636`,
0.24016918889854005`, 0.24024401101882997`, 0.24031867870700516`,
0.24039319291537553`, 0.2404675545865037`, 0.2405417646533441`,
0.2406158240393793`, 0.24068973365875446`, 0.2407634944164086`,
0.2408371072082042`, 0.2409105729210539`, 0.24098389243304533`,
0.2410570666135635`, 0.2411300963234111`, 0.24120298241492655`,
0.2412757257321002`, 0.24134832711068835`, 0.2414207873783251`,
0.2414931073546326`, 0.2415652878513292`, 0.2416373296723357`,
0.24170923361387975`, 0.24178100046459872`, 0.24185263100564042`,
0.2419241260107624`, 0.2419954862464295`, 0.24206671247190956`,
0.24213780543936783`, 0.2422087658939596`, 0.2422795945739213`,
0.24235029221066012`, 0.24242085952884213`, 0.24249129724647894`,
0.24256160607501295`, 0.24263178671940117`, 0.24270183987819768`,
0.24277176624363478`, 0.2428415665017028`, 0.24291124133222858`,
0.2429807914089527`, 0.24305021739960564`, 0.24311951996598238`,
0.2431886997640161`, 0.24325775744385061`, 0.2433266936499116`,
0.24339550902097692`, 0.2434642041902454`, 0.2435327797854051`,
0.24360123642870002`, 0.24366957473699605`, 0.24373779532184586`,
0.24380589878955275`, 0.24387388574123336`, 0.24394175677287983`,
0.24400951247542046`, 0.24407715343478012`, 0.24414468023193892`,
0.24421209344299077`, 0.24427939363920062`, 0.24434658138706086`,
0.24441365724834702`, 0.24448062178017266`, 0.24454747553504314`,
0.24461421906090902`, 0.24468085290121833`, 0.24474737759496826`,
0.24481379367675596`, 0.24488010167682878`, 0.2449463021211335`,
0.24501239553136514`, 0.24507838242501487`, 0.24514426331541722`,
0.2452100387117969`, 0.24527570911931434`, 0.24534127503911135`,
```

```
0.24540673696835544`, 0.24547209540028403`, 0.24553735082424766`,
0.2456025037257527`, 0.24566755458650372`, 0.2457325038844448`,
0.2457973520938006`, 0.24586209968511677`, 0.24592674712529977`,
0.2459912948776562`, 0.24605574340193131`, 0.24612009315434763`,
0.2461843445876422`, 0.24624849815110408`, 0.24631255429061072`,
0.24637651344866435`, 0.2464403760644275`, 0.2465041425737583`,
0.24656781340924502`, 0.24663138900024045`, 0.24669486977289565`,
0.2467582561501932`, 0.2468215485519802`, 0.24688474739500063`,
0.24694785309292738`, 0.24701086605639389`, 0.2470737866930252`,
0.24713661540746892`, 0.24719935260142537`, 0.2472619986736777`,
0.24732455402012138`, 0.24738701903379345`, 0.24744939410490127`,
0.247511679620851`, 0.24757387596627564`, 0.24763598352306282`,
0.24769800267038203`, 0.24775993378471173`, 0.24782177723986598`,
0.2478835334070208`, 0.24794520265474002`, 0.24800678534900114`,
0.24806828185322058`, 0.24812969252827863`, 0.2481910177325443`,
0.24825225782189958`, 0.24831341314976363`, 0.24837448406711657`,
0.24843547092252294`, 0.24849637406215488`, 0.2485571938298152`,
0.24861793056695983`, 0.24867858461272033`, 0.24873915630392596`,
0.24879964597512538`, 0.24886005395860844`, 0.2489203805844272`,
0.24898062618041722`, 0.24904079107221821`, 0.24910087558329452`,
0.24916088003495562`, 0.24922080474637592`, 0.24928065003461478`,
0.24934041621463587`, 0.24940010359932674`, 0.24945971249951773`,
0.249519243224001`, 0.24957869607954913`, 0.24963807137093352`,
0.24969736940094275`, 0.2497565904704004`, 0.2498157348781831`,
0.24987480292123782`, 0.2499337948945996`, 0.24999271109140853`,
0.25005155180292676`, 0.2501103173185553`, 0.25016900792585084`,
0.25022762391054176`, 0.25028616555654476`, 0.25034463314598066`,
0.25040302695919026`, 0.2504613472747503`, 0.2505195943694885`,
0.25057776851849933`, 0.25063586999515897`, 0.2506938990711403`,
0.2507518560164277`, 0.25080974109933174`, 0.2508675545865037`,
0.25092529674294994`, 0.250982967832046`, 0.25104056811555037`,
0.251098097853619`, 0.2511555573048183`, 0.25121294672613914`,
0.2512702663730102`, 0.25132751649931107`, 0.2513846973573854`,
0.2514418091980541`, 0.25149885227062785`, 0.25155582682292016`,
0.25161273310125953`, 0.2516695713505023`, 0.25172634181404446`,
0.2517830447338343`, 0.25183968035038407`, 0.2518962489027821`,
0.2519527506287045`, 0.25200918576442677`, 0.2520655545448353`,
0.25212185720343905`, 0.2521780939723805`, 0.25223426508244684`,
0.25229037076308136`, 0.252346411242394`, 0.2524023867471723`,
0.25245829750289217`, 0.2525141437337285`, 0.25256992566256553`,
0.25262564351100736`, 0.25268129749938795`, 0.2527368878467817`,
0.2527924147710132`, 0.2528478784886674`, 0.25290327921509914`,
0.25295861716444323`, 0.2530138925496241`, 0.25306910558236506`,
0.25312425647319803`, 0.2531793454314729`, 0.25323437266536664`,
```

```
0.2532893383818925`, 0.25334424278690937`, 0.25339908608513045`,
0.2534538684801322`, 0.25350859017436334`, 0.2535632513691534`,
0.25361785226472155`, 0.2536723930601849`, 0.25372687395356713`,
0.2537812951418069`, 0.2538356568207662`, 0.2538899591852382`,
0.253944202428956`, 0.2539983867446002`, 0.25405251232380704`,
0.25410657935717645`, 0.25416058803427966`, 0.2542145385436671`,
0.25426843107287594`, 0.2543222658084379`, 0.25437604293588667`,
0.25442976263976524`, 0.25448342510363353`, 0.2545370305100756`,
0.25459057904070675`, 0.2546440708761811`, 0.25469750619619813`,
0.25475088517951033`, 0.25480420800392967`, 0.2548574748463348`,
0.25491068588267785`, 0.2549638412879911`, 0.25501694123639385`,
0.2550699859010989`, 0.2551229754544194`, 0.25517591006777507`,
0.2552287899116989`, 0.25528161515584347`, 0.2553343859689873`,
0.25538710251904106`, 0.25543976497305415`, 0.25549237349722037`,
0.25554492825688435`, 0.25559742941654773`, 0.25564987713987464`,
0.25570229609677125`, 0.255754690546595`, 0.2558070780111032`,
0.2558594441789539`, 0.2559117992459984`, 0.25596414058432665`,
0.2560164465509889`, 0.2560687415651822`, 0.2561210299532035`,
0.25617330384900633`, 0.25622554646074575`, 0.25627778205883467`,
0.25633001293590985`, 0.256382211679589`, 0.2564343946473123`,
0.2564865716998702`, 0.25653873750375666`, 0.25659086799987885`,
0.25664299101056964`, 0.25669509908031696`, 0.25674718630496696`,
0.2567992644874559`, 0.2568513249622837`, 0.2569033626557675`,
0.25695538868180007`, 0.25700740213545004`, 0.2570593937742806`,
0.2571113678002482`, 0.25716334004939484`, 0.2572152825036775`,
0.2572672046851914`, 0.25731912569758725`, 0.2573710261309814`,
0.25742290684850927`, 0.25747477734040636`, 0.25752662603593723`,
0.25757845716784195`, 0.25763027612418976`, 0.25768208689358696`,
0.25773387450155205`, 0.25778564207565435`, 0.2578374063135423`,
0.25788914445236205`, 0.25794086227209284`, 0.2579925786164949`,
0.2580442818969822`, 0.25809594716347584`, 0.2581476118707616`,
0.25819926388505055`, 0.25825089545320556`, 0.2583025097928346`,
0.25835411316222484`, 0.25840570146610076`, 0.25845726502916594`,
0.2585088219809318`, 0.25856035886713635`, 0.25861188697424964`,
0.258663399910314`, 0.2587148821953371`, 0.2587663553823511`,
0.25881781784024477`, 0.2588692711201307`, 0.25892069368345105`,
0.25897210581127644`, 0.25902351716936456`, 0.25907489849239074`,
0.2591262610769632`, 0.25917762302209985`, 0.25922897816469326`,
0.25928029007380293`, 0.25933160004767297`, 0.25938289609644516`,
0.25943417248150347`, 0.25948543450053485`, 0.25953668548377173`,
0.2595879170748485`, 0.2596391293490422`, 0.25969033673003794`,
0.25974152489836944`, 0.25979269885137496`, 0.25984386152526817`,
0.25989500132766175`, 0.25994612942980205`, 0.2599972426472334`,
0.2600483513238162`, 0.2600994328492176`, 0.2601504967533319`,
```

0.26020155169899084`, 0.26025258768663767`, 0.260303604643791`,
0.26035461937704385`, 0.26040561723108796`, 0.26045658895111945`,
0.26050755465528186`, 0.2605585071324631`, 0.2606094404163001`,
0.26066035723246306`, 0.2607112713729726`, 0.26076215829933985`,
0.2608130271401066`, 0.2608638952086859`, 0.2609147419106871`,
0.2609655624206787`, 0.26101638188141907`, 0.2610671875598352`,
0.2611179693335802`, 0.2611687403255601`, 0.2612195031333609`,
0.2612702519134211`, 0.2613209745750568`, 0.2613716913585554`,
0.26142239368399656`, 0.2614730765490051`, 0.2615237510180556`,
0.2615744094203796`, 0.2616250510507891`, 0.26167567746435993`,
0.26172629065087627`, 0.26177688509323677`, 0.26182747049143357`,
0.2618780489859816`, 0.26192859481295133`, 0.2619791316606989`,
0.26202966237203634`, 0.2620801800486665`, 0.2621306683624633`,
0.26218115142576204`, 0.26223163095667673`, 0.262282080539304`,
0.26233251608909985`, 0.26238294639705695`, 0.2624333681033804`,
0.2624837562735772`, 0.26253413845516477`, 0.26258451321647774`,
0.262634869585919`, 0.26268521050979277`, 0.26273553751588896`,
0.26278585417450473`, 0.262836147984708`, 0.2628864368636874`,
0.26293670686097625`, 0.2629869668743853`, 0.2630372137029508`,
0.2630874368803878`, 0.263137649276253`, 0.26318784925459826`,
0.2632380434679014`, 0.26328821209733`, 0.26333836833203794`,
0.2633885215909686`, 0.2634386518149904`, 0.2634887626159997`,
0.26353886928571396`, 0.26358896725124914`, 0.26363903325978166`,
0.2636890934698742`, 0.26373914602048754`, 0.26378918059297846`,
0.2638391944724442`, 0.2638892065471262`, 0.263939203421022`,
0.26398917655010873`, 0.26403914422734676`, 0.2640890972780979`,
0.26413903391690763`, 0.26418895551972504`, 0.26423886615477366`,
0.26428875927680595`, 0.26433863493242177`, 0.26438851027683075`,
0.2644383675786861`, 0.2644882028870279`, 0.26453803272207677`,
0.26458784920079714`, 0.2646376494324536`, 0.26468743599946837`,
0.2647372201400041`, 0.26478697715801286`, 0.2648367157295126`,
0.2648864535149099`, 0.2649361737184866`, 0.2649858779915525`,
0.26503557111892007`, 0.2650852500571516`, 0.26513491277159895`,
0.26518456057916867`, 0.2652342062118216`, 0.2652838339045903`,
0.26533343902471673`, 0.2653830416362569`, 0.26543263013580787`,
0.2654822012456771`, 0.2655317587843938`, 0.2655813117351507`,
0.2656308321431642`, 0.26568034473170465`, 0.26572985409157246`,
0.26577934774039275`, 0.2658288210151278`, 0.265878288775584`,
0.2659277436804395`, 0.2659771792146725`, 0.2660266022685849`,
0.26607602060084046`, 0.2661254239002843`, 0.26617480236864494`,
0.2662241776362415`, 0.2662735392108978`, 0.2663228819753514`,
0.2663722159786077`, 0.26642153481551667`, 0.26647084115275643`,
0.2665201308108143`, 0.26656941612702983`, 0.2666186844255624`,
0.26666793970942765`, 0.2667171851416553`, 0.2667664130958203`,

0.2668156272439879`, 0.2668648285692188`, 0.26691402521510565`,
0.26696320066229234`, 0.2670123600452574`, 0.26706151738179384`,
0.2671106532830333`, 0.26715977234669`, 0.26720888581230645`,
0.2672579946830463`, 0.26730707116451063`, 0.2673561408764568`,
0.2674052072725931`, 0.2674542566333492`, 0.26750328270835355`,
0.26755230808359826`, 0.26760132209281573`, 0.2676503110761565`,
0.2676992936304294`, 0.26774826595311196`, 0.26779722998002836`,
0.26784616912926523`, 0.26789509983237075`, 0.267944021413875`,
0.26799292606224173`, 0.2680418219216264`, 0.2680907018255799`,
0.26813957200925964`, 0.26818842469346726`, 0.26823727013765664`,
0.268286099094253`, 0.26833491981533797`, 0.2683837294385384`,
0.2684325168541122`, 0.2684812954694329`, 0.26853006214529357`,
0.26857882434506686`, 0.2686275625134069`, 0.2686762903890308`,
0.26872501423072015`, 0.2687737161299548`, 0.2688224015239048`,
0.268871082644095`, 0.2689197610039922`, 0.26896840388541565`,
0.26901704239628577`, 0.26906567855169605`, 0.2691142999633326`,
0.26916289861369636`, 0.2692114946269354`, 0.26926008168156046`,
0.26930864305612384`, 0.2693571966829338`, 0.2694057407012791`,
0.26945427568743485`, 0.2695027870385335`, 0.26955129002448636`,
0.2695997846343068`, 0.2696482631960613`, 0.26969673238168523`,
0.2697451872228465`, 0.2697936345956291`, 0.2698420617255368`,
0.2698904861623285`, 0.26993889471726795`, 0.2699872944446221`,
0.2700356796280966`, 0.2700840441578174`, 0.27013240012051587`,
0.27018074346636767`, 0.2702290835419675`, 0.2702774004106557`,
0.27032570899810243`, 0.27037401061467253`, 0.2704222949882383`,
0.2704705639239897`, 0.27051882619817946`, 0.27056708619334197`,
0.2706153147056793`, 0.2706635359921426`, 0.2707117544733077`,
0.27075995968862343`, 0.27080813998692205`, 0.2708563170610388`,
0.2709044839659741`, 0.2709526302581916`, 0.27100076603175055`,
0.27104889791038317`, 0.2710970215746929`, 0.27114511615372894`,
0.2711932079785732`, 0.27124129271427894`, 0.2712893618761712`,
0.2713374153662663`, 0.2713854604699343`, 0.27143349723991106`,
0.2714815103225271`, 0.271529522828813`, 0.27157751954481946`,
0.271625507215154`, 0.27167347884231474`, 0.27172143636519785`,
0.2717693866533839`, 0.27181732152024723`, 0.2718652523725222`,
0.2719131636308388`, 0.27196106705652195`, 0.2720089572377081`,
0.27205683693493526`, 0.2721047005717231`, 0.2721525558162177`,
0.27220040542967244`, 0.27224822998313836`, 0.2722960473688752`,
0.2723438565175188`, 0.2723916586311509`, 0.2724394373685679`,
0.2724872067094517`, 0.2725349754957701`, 0.27258272243814097`,
0.2726304540681568`, 0.27267818259420395`, 0.27272590599819035`,
0.27277359889014097`, 0.2728212872575416`, 0.27286897244461134`,
0.27291664250632874`, 0.27296429081628076`, 0.27301193833230414`,
0.2730595778850241`, 0.2731071943658263`, 0.2731548027191032`,

0.2732024038025315`, 0.2732499971633957`, 0.27329756566034913`,
0.273345128174445`, 0.27339268347960133`, 0.27344022421274106`,
0.2734877529533035`, 0.2735352717515374`, 0.2735827824387474`,
0.27363027152243424`, 0.2736777586943918`, 0.27372523045140634`,
0.2737726948931861`, 0.27382014441909835`, 0.2738675778157108`,
0.27391500288042614`, 0.2739624131053098`, 0.2740098231721363`,
0.2740572120493839`, 0.2741045929939345`, 0.27415196369995465`,
0.27419932495344557`, 0.2742466717813251`, 0.27429400944930876`,
0.27434134089239437`, 0.2743886464088404`, 0.2744359430837044`,
0.2744832353613226`, 0.27453051733530376`, 0.2745777787492899`,
0.27462503196046373`, 0.2746722851696789`, 0.27471951707000586`,
0.27476673478521196`, 0.27481394902268835`, 0.2748611596778963`,
0.2749083424294702`, 0.2749555177914739`, 0.2750026916778491`,
0.2750498496998557`, 0.27509698628225737`, 0.2751441214408565`,
0.27519124713419674`, 0.27523835691739085`, 0.27528545481566763`,
0.2753325509819703`, 0.2753796358249043`, 0.2754267113053023`,
0.2754737724468974`, 0.2755208317561353`, 0.27556787930275806`,
0.2756149139984284`, 0.2756619377432922`, 0.2757089585581882`,
0.2757559699448161`, 0.27580296917050445`, 0.27584995643194404`,
0.27589693884680866`, 0.27594391684208075`, 0.2759908815743409`,
0.27603783365800255`, 0.27608477776676177`, 0.27613171781636964`,
0.2761786460160197`, 0.2762255641573744`, 0.27627247097246865`,
0.27631937686866614`, 0.2763662710898041`, 0.2764131496592207`,
0.2764600180431472`, 0.2765068858199465`, 0.27655374406146715`,
0.2766005922038564`, 0.2766474219540432`, 0.2766942510578932`,
0.2767410732379308`, 0.2767878848100194`, 0.2768346820894152`,
0.27688147390539924`, 0.27692825684986805`, 0.27697503156455416`,
0.27702179626149526`, 0.27706855023531274`, 0.27711530312667854`,
0.2771620384607955`, 0.27720876456170757`, 0.27725548078502316`,
0.27730219689330254`, 0.27734890224973335`, 0.277395595704682`,
0.2774422752098095`, 0.27748895377391825`, 0.2775356219812567`,
0.2775822815425011`, 0.27762892318350707`, 0.2776755641793367`,
0.27772219388432273`, 0.27776881445751933`, 0.27781542870301684`,
0.2778620322211297`, 0.2779086324450155`, 0.2779552159923377`,
0.2780017881342956`, 0.27804835426489094`, 0.2780949202732277`,
0.27814147133673434`, 0.27818801127960346`, 0.27823454011251925`,
0.27828106888659637`, 0.2783275864436457`, 0.2783740940695042`,
0.2784205859092623`, 0.27846707753397715`, 0.2785135565864484`,
0.2785600258501084`, 0.2786064879383662`, 0.2786529424440016`,
0.2786993926971314`, 0.27874582964394173`, 0.2787922518131011`,
0.2788386692884234`, 0.27888508390216793`, 0.2789314857412456`,
0.27897787535419033`, 0.2790242558876126`, 0.2790706338235045`,
0.2791170004735678`, 0.2791633562202557`, 0.27920969997623835`,
0.2792560436558224`, 0.2793023743336887`, 0.2793486931753409`,

0.2793950047108656`, 0.27944131162432395`, 0.27948761272854006`,
0.2795339002759275`, 0.27958017146321423`, 0.279626441697912`,
0.2796727063414513`, 0.2797189613930159`, 0.2797652038042378`,
0.27981143744719467`, 0.27985766465826734`, 0.27990388357266194`,
0.27995009230725015`, 0.27999628944514215`, 0.2800424861173433`,
0.2800886667198961`, 0.28013483854761556`, 0.28018100212147673`,
0.2802271628406384`, 0.2802733186815349`, 0.2803194546092012`,
0.2803655800958471`, 0.2804117044822732`, 0.2804578206250413`,
0.2805039285207341`, 0.2805500212497821`, 0.2805961093891294`,
0.28064219206474883`, 0.2806882652978363`, 0.2807343296991478`,
0.2807803816767369`, 0.2808264283922094`, 0.28087246428945334`,
0.2809184904648237`, 0.2809645080152251`, 0.28101052391604286`,
0.2810565287121521`, 0.2811025219358655`, 0.2811485038436533`,
0.2811944837523538`, 0.28124045460060476`, 0.2812864133077953`,
0.2813323618828555`, 0.2813783058837623`, 0.28142424341653566`,
0.2814701689965249`, 0.2815160869580188`, 0.28156199513512686`,
0.2816079012018348`, 0.28165379415523056`, 0.2816996727767062`,
0.2817455452136835`, 0.28179141678453146`, 0.28183727737818187`,
0.2818831266560667`, 0.28192896427981207`, 0.2819748010600014`,
0.28202062638682784`, 0.2820664406853171`, 0.28211224469622287`,
0.2821580459026435`, 0.28220384036610136`, 0.28224961959437206`,
0.28229539219948896`, 0.28234115791483866`, 0.2823869213076461`,
0.2824326728991231`, 0.28247840617374725`, 0.2825241364804038`,
0.2825698635825602`, 0.28261558279462284`, 0.2826612923992418`,
0.2827069873792648`, 0.2827526782069083`, 0.28279836102420003`,
0.2828440349190433`, 0.28288969897953603`, 0.2829353587146686`,
0.2829810080853631`, 0.2830266466537821`, 0.28307227574374155`,
0.2831179003154121`, 0.28316352125020694`, 0.2832091263057612`,
0.28325471976773714`, 0.28330030925706096`, 0.2833458937614063`,
0.28339147194392683`, 0.28343703860549785`, 0.2834825930932789`,
0.2835281450901052`, 0.28357368610846406`, 0.2836192198351875`,
0.283664740163589`, 0.28371025973032143`, 0.2837557683066583`,
0.2838012662829886`, 0.2838467548112885`, 0.2838922395371586`,
0.2839377205183269`, 0.2839831858694628`, 0.2840286387169867`,
0.28407408868187406`, 0.2841195321518622`, 0.2841649680743037`,
0.284210393515696`, 0.2842558087991757`, 0.2843012229799139`,
0.2843466251202505`, 0.28439201752615084`, 0.2844373982074947 5`,
0.2844827779303128`, 0.28452814671807036`, 0.2845735063193458`,
0.2846188539599375`, 0.2846642001181159`, 0.28470954028239304`,
0.2847548696627953`, 0.28480018495168025`, 0.2848454966653635`,
0.28489079967856046`, 0.28493609518126967`, 0.28498138151577845`,
0.2850266588633387`, 0.28507193437158906`, 0.2851171930191731 5`,
0.28516244595664464`, 0.2852076899634725`, 0.285252933022985`,
0.2852981648784958`, 0.2853433840986858`, 0.2853885943381644`,

0.28543380318740924`, 0.2854790048478698`, 0.28552419833156456`,
0.28556937481130223`, 0.285614549527766`, 0.2856597160550282`,
0.28570487414732415`, 0.28575002532208066`, 0.2857951659829578`,
0.28584030176208736`, 0.28588542534693295`, 0.2859305397617755`,
0.28597564803079145`, 0.2860207547129858`, 0.28606584798923834`,
0.28611093175893954`, 0.28615600617343423`, 0.2862010789535607`,
0.2862461441644739`, 0.2862911958357886`, 0.2863362352453524`,
0.2863812741997384`, 0.2864263035306164`, 0.28647132496607114`,
0.2865163378795703`, 0.2865613430842573`, 0.28660634648309474`,
0.28665133817513005`, 0.28669631596759526`, 0.28674128749834016`,
0.28678625681362974`, 0.2868312155637396`, 0.2868761639283543`,
0.28692110208729565`, 0.2869660400195724`, 0.2870109683200579`,
0.2870558859200303`, 0.2871007918217814`, 0.28714569623078245`,
0.28719058943688547`, 0.287235474371997`, 0.2872803514285777`,
0.28732522238921554`, 0.28737009035971595`, 0.2874149480367844`,
0.2874597897371272`, 0.2875046273240356`, 0.28754946341918486`,
0.28759429062767083`, 0.2876391056673945`, 0.2876839099549301`,
0.28772871031464037`, 0.28777350402066587`, 0.28781828953393157`,
0.2878630653155004`, 0.2879078363777441`, 0.2879525940845369`,
0.2879973449354874`, 0.28804208847839513`, 0.2880868263891537`,
0.28813156217210023`, 0.28817628116046323`, 0.2882209905533628`,
0.2882656953861701`, 0.2883103965770401`, 0.28835509095951295`,
0.2883997704035193`, 0.28844444223163773`, 0.288489112391117`,
0.28853377398535013`, 0.2885784277329862`, 0.28862306739548094`,
0.28866770629190286`, 0.288712334960748`, 0.28875695414009994`,
0.28880156533425283`, 0.28884617137170193`, 0.2888907732245958`,
0.28893536175241985`, 0.28897993925147203`, 0.2890245125024048`,
0.28906908126926606`, 0.28911364006547036`, 0.28915818847792907`,
0.289202729014536`, 0.2892472678595421`, 0.2892917979535882`,
0.2893363185806925`, 0.2893808280865137`, 0.2894253359807208`,
0.28946983461182163`, 0.2895143226141316`, 0.2895588010784494`,
0.28960327640191946`, 0.28964774648541824`, 0.2896922077234089`,
0.289736659651341`, 0.2897811024754751`, 0.2898255389013559`,
0.2898699656833643`, 0.28991438371145273`, 0.2899587941073914`,
0.29000320427179643`, 0.29004759989421786`, 0.2900919894287591`,
0.29013637097292466`, 0.2901807490115492`, 0.2902251206631052`,
0.29026947344759507`, 0.29031382085423135`, 0.29035816660616526`,
0.2904025073118299`, 0.2904468399935057`, 0.29049115730818015`,
0.2905354708437904`, 0.29057977866019324`, 0.29062407846839655`,
0.2906683717577525`, 0.2907126531471509`, 0.29075693087393134`,
0.29080119824693723`, 0.2908454575723334`, 0.29088971115650786`,
0.29093396046955217`, 0.29097819904746064`, 0.29102242671379597`,
0.2910666455859229`, 0.2911108628922182`, 0.2911550750880101`,
0.29119927674569973`, 0.2912434666008762`, 0.29128765196977635`,

```
0.29133183158164333`, 0.2913760025088906`, 0.29142016426559625`,
0.29146431776620496`, 0.291508469828485`, 0.2915526116495452`,
0.2915967426824849`, 0.29164086676079004`, 0.291684988461962`,
0.29172910024265775`, 0.29177320091678405`, 0.2918172916748663`,
0.2918613816452089`, 0.2919054647074589`, 0.29194954078612795`,
0.29199360642278455`, 0.2920376647306587`, 0.2920817164673812`,
0.2921257586326263`, 0.29216979263068293`, 0.2922138193442043`,
0.2922578444106936`, 0.29230185978133855`, 0.29234586166700577`,
0.29238985799734984`, 0.2924338531843904`, 0.29247784058061127`,
0.2925218156631848`, 0.2925657795928668`, 0.2926097433210558`,
0.2926536999040008`, 0.29269764865907527`, 0.2927415891053708`,
0.292785521442096`, 0.292829445924902`, 0.2928733623408262`,
0.29291727044164434`, 0.29296117145405337`, 0.2930050709918281`,
0.2930489585846773`, 0.2930928357636059`, 0.2931367055186072`,
0.293180574551991`, 0.29322443770797485`, 0.29326828631891283`,
0.29331212528405043`, 0.29335596384831475`, 0.2933997945850584`,
0.29344361851042067`, 0.29348743206466876`, 0.29353123950463`,
0.29357504233114007`, 0.29361883522751275`, 0.2936626189911174`,
0.29370639537297405`, 0.2937501699856929`, 0.29379393549399635`,
0.29383769095952067`, 0.29388143634923697`, 0.29392518083396896`,
0.2939689189810219`, 0.29401264756323864`, 0.29405636561806725`,
0.2941000800813741`, 0.2941437866467763`, 0.294187484872998`,
0.2942311772520688`, 0.29427486132598435`, 0.29431854492838083`,
0.29436221823861786`, 0.29440587929195183`, 0.29444953347536124`,
0.2944931862821153`, 0.29453683156180843`, 0.2945804659046323`,
0.2946240916940579`, 0.29466771377020795`, 0.2947113297471874`,
0.2947549369216541`, 0.29479853630376907`, 0.2948421277141248`,
0.2948857141521839`, 0.2949292906350121`, 0.2949728590822624`,
0.29501642141285717`, 0.295059982222001`, 0.295103536291626`,
0.29514707896062664`, 0.29519061175387795`, 0.2952341420261657`,
0.2952776664687703`, 0.2953211837902913`, 0.2953646897292733`,
0.2954081895288356`, 0.2954516855568829`, 0.2954951731461165`,
0.29553865278399744`, 0.2955821228484517`, 0.29562559223919505`,
0.29566905258972015`, 0.29571250308541686`, 0.2957559435208962`,
0.29579938256650407`, 0.29584281562745124`, 0.2958862404781353`,
0.29592965628284207`, 0.2959730650467758`, 0.29601646835759693`,
0.2960598653245321`, 0.2961032547164981`, 0.29614663530188995`,
0.29619001384739024`, 0.296233381173944`, 0.2962767401689737`,
0.29632009186655056`, 0.2963634402566381`, 0.2964067856914757`,
0.2964501174585775`, 0.296493438695144`, 0.2965367569926208`,
0.2965800702593744`, 0.29662337811726663`, 0.29666667360336924`,
0.2967099618708196`, 0.296753249028383`, 0.2967965276021948`,
0.29683979733630766`, 0.29688305964170675`, 0.29692631794149843`,
0.2969695700680234`, 0.2970128117956812`, 0.2970560429047078`,
```

0.29709927129899283`, 0.29714249692500116`, 0.29718571417845685`,
0.297228922065714`, 0.29727212061643005`, 0.2973153181443622`,
0.29735850535549435`, 0.29740168596413513`, 0.2974448577181895`,
0.2974880264870606`, 0.297531187134035`, 0.29757433818527956`,
0.29761748279179473`, 0.29766062184033243`, 0.2977037589997564`,
0.29774688770974456`, 0.29779000489838`, 0.29783311428788445`,
0.29787622208902237`, 0.29791932205567`, 0.29796241574031007`,
0.29800549757692146`, 0.2980485773684824`, 0.29809164942215016`,
0.2981347133801366`, 0.29817777093035047`, 0.29822082118484816`,
0.2982638681108771`, 0.3067559290380546`, 0.3068`, 0.30684406463218417`,
0.30688812293733364`, 0.3069321749181731`, 0.3069762205774252`,
0.3070202599178106`, 0.30706429294204823`, 0.30710831965285473`,
0.30715234005294506`, 0.3071963541450321`, 0.3072403619318269`,
0.3072843634160385`, 0.30732835860037394`, 0.30737234748753833`,
0.307416330080235`, 0.3074603063811653`, 0.3075042763930284`,
0.30754824011852194`, 0.30759219756034123`, 0.30763614872118006`,
0.3076800936037299`, 0.3077240322106806`, 0.30776796454471994`,
0.30781189060853387`, 0.3078558104048062`, 0.3078997239362192`,
0.307943631205453`, 0.3079875322151856`, 0.3080314269680936`,
0.30807531546685135`, 0.30811919771413143`, 0.3081630737126043`,
0.3082069434649389`, 0.30825080697380175`, 0.30829466424185803`,
0.30833851527177075`, 0.30838236006620096`, 0.3084261986278079`,
0.3084700309592489`, 0.3085138570631796`, 0.3085576769422534`,
0.308601490599122`, 0.30864529803643537`, 0.3086890992568413`,
0.30873289426298584`, 0.3087766830575133`, 0.3088204656430658`,
0.30886424202228396`, 0.3089080121978062`, 0.3089517761722693`,
0.3089955339483081`, 0.3090392855285554`, 0.3090830309156425`,
0.3091267701121985`, 0.3091705031208508`, 0.3092142299442249`,
0.30925795058494454`, 0.3093016650456315`, 0.30934537332890566`,
0.30938907543738514`, 0.3094327713736863`, 0.30947646114042343`,
0.30952014474020917`, 0.3095638221756541`, 0.3096074934493673`,
0.3096511585639557`, 0.30969481752202443`, 0.30973847032617696`,
0.30978211697901475`, 0.30982575748313756`, 0.3098693918411433`,
0.30991302005562793`, 0.30995664212918556`, 0.31000025806440873`,
0.31004386786388793`, 0.310087471530212`, 0.31013106906596766`,
0.31017466047374015`, 0.31021824575611284`, 0.310261824915667`,
0.31030539795498246`, 0.31034896487663693`, 0.3103925256832065`,
0.31043608037726544`, 0.31047962896138614`, 0.3105231714381392`,
0.31056670781009355`, 0.3106102380798161`, 0.310653762249872`,
0.31069728032282484`, 0.31074079230123614`, 0.31078429818766584`,
0.3108277979846719`, 0.31087129169481054`, 0.3109147793206364`,
0.3109582608647019`, 0.31100173632955813`, 0.3110452057177542`,
0.3110886690318373`, 0.3111321262743531`, 0.31117557744784535`,
0.31121902255485606`, 0.3112624615979254`, 0.31130589457959196`,

```
0.3113493215023922`, 0.3113927423688612`, 0.31143615718153217`,
0.3114795659429363`, 0.3115229686556033`, 0.31156636532206106`,
0.3116097559448356`, 0.3116531405264513`, 0.31169651906943074`,
0.3117398915762947`, 0.31178325804956236`, 0.3118266184917509`,
0.31186997290537605`, 0.3119133212929516`, 0.31195666365698943`,
0.312`, 0.312043330324492`, 0.3120866546329721`, 0.31212997292794553`,
0.31217328521191556`, 0.31221659148738395`, 0.31225989175685054`,
0.31230318602281343`, 0.3123464742877691`, 0.31238975655421225`,
0.3124330328246359`, 0.31247630310153124`, 0.3125195673873878`,
0.31256282568469335`, 0.3126060779959341`, 0.3126493243235942`,
0.3126925646701565`, 0.31273579903810184`, 0.3127790274299094`,
0.31282224984805673`, 0.31286546629501955`, 0.31290867677327194`,
0.31295188128528645`, 0.31299507983353353`, 0.31303827242048216`,
0.3130814590485997`, 0.31312463972035165`, 0.3131678144382018`,
0.31321098320461244`, 0.31325414602204393`, 0.31329730289295504`,
0.31334045381980286`, 0.3133835988050428`, 0.3134267378511285`,
0.31346987096051193`, 0.3135129981356435`, 0.3135561193789718`,
0.31359923469294376`, 0.31364234408000463`, 0.31368544754259803`,
0.31372854508316583`, 0.31377163670414826`, 0.31381472240798397`,
0.3138578021971096`, 0.3139008760739606`, 0.3139439440409705`,
0.313987006100571`, 0.3140300622551924`, 0.3140731125072632`,
0.3141161568592103`, 0.3141591953134589`, 0.3142022278724325`,
0.3142452545385531`, 0.31428827531424075`, 0.3143312902019142`,
0.3143742992039903`, 0.3144173023228843`, 0.3144602995610098`,
0.3145032909207788`, 0.3145462764046016`, 0.3145892560148868`,
0.3146322297540416`, 0.3146751976244712`, 0.31471815962857946`,
0.31476111576876836`, 0.3148040660474385`, 0.31484701046698854`,
0.3148899490298159`, 0.3149328817383158`, 0.3149758085948824`,
0.31501872960190797`, 0.3150616447617831`, 0.31510455407689686`,
0.3151474575496366`, 0.3151903551823882`, 0.3152332469775357`,
0.31527613293746165`, 0.31531901306454707`, 0.31536188736117116`,
0.3154047558297116`, 0.31544761847254454`, 0.31549047529204427`,
0.3155333262905838`, 0.3155761714705342`, 0.3156190108342652`,
0.3156618443841447`, 0.3157046721225392`, 0.3157474940518135`,
0.31579031017433074`, 0.31583312049245243`, 0.3158759250085388`,
0.31591872372494795`, 0.3159615166440369`, 0.31600430376816074`,
0.3160470850996731`, 0.316089860640926`, 0.3161326303942698`,
0.31617539436205344`, 0.3162181525466241`, 0.3162609049503274`,
0.3163036515755074`, 0.31634639242450674`, 0.31638912749966613`,
0.31643185680332503`, 0.3164745803378211`, 0.3165172981054906`,
0.316560010108668`, 0.3166027163496864`, 0.31664541683087727`,
0.3166881115545704`, 0.31673080052309405`, 0.31677348373877506`,
0.31681616120393863`, 0.3168588329209082`, 0.31690149889200586`,
0.3169441591195522`, 0.31698681360586595`, 0.31702946235326457`,
```

```
0.3170721053640639`, 0.317114742640578`, 0.3171573741851197`, 0.3172`,
0.3172426200875286`, 0.31728523445001344`, 0.31732784308976103`,
0.31737044600907627`, 0.31741304321026254`, 0.31745563469562166`,
0.31749822046745396`, 0.31754080052805816`, 0.31758337487973143`,
0.3176259435247694`, 0.3176685064654663`, 0.31771106370411467`,
0.31775361524300555`, 0.3177961610844285`, 0.31783870123067137`,
0.3178812356840208`, 0.3179237644467617`, 0.31796628752117734`,
0.31800880490954964`, 0.31805131661415903`, 0.31809382263728414`,
0.31813632298120254`, 0.3181788176481898`, 0.31822130664052023`,
0.3182637899604666`, 0.3183062676103001`, 0.31834873959229054`,
0.318391205908706`, 0.31843366656181316`, 0.3184761215538773`,
0.3185185708871619`, 0.3185610145639293`, 0.3186034525864402`,
0.3186458849569534`, 0.3186883116777269`, 0.31873073275101665`,
0.31877314817907737`, 0.3188155579641621`, 0.3188579621085225`,
0.3189003606144088`, 0.3189427534840696`, 0.31898514071975204`,
0.31902752232370174`, 0.31906989829816285`, 0.31911226864537817`,
0.31915463336758876`, 0.31919699246703437`, 0.3192393459459532`,
0.31928169380658206`, 0.31932403605115606`, 0.31936637268190904`,
0.31940870370107327`, 0.3194510291108795`, 0.31949334891355724`,
0.3195356631113341`, 0.31957797170643665`, 0.3196202747010896`,
0.31966257209751664`, 0.3197048638979395`, 0.3197471501045787`,
0.3197894307196534`, 0.31983170574538106`, 0.31987397518397775`,
0.31991623903765815`, 0.3199584973086353`, 0.3200007499991211`,
0.32004299711132567`, 0.3200852386474578`, 0.3201274746097248`,
0.32016970500033265`, 0.32021192982148555`, 0.32025414907538674`,
0.3202963627642375`, 0.32033857089023793`, 0.3203807734555868`,
0.320422970462481`, 0.3204651619131165`, 0.32050734780968754`,
0.3205495281543868`, 0.32059170294940575`, 0.3206338721969343`,
0.32067603589916105`, 0.32071819405827295`, 0.32076034667645564`,
0.32080249375589337`, 0.32084463529876883`, 0.3208867713072635`,
0.3209289017835571`, 0.3209710267298281`, 0.32101314614825355`,
0.3210552600410091`, 0.321097368410269`, 0.3211394712582058`,
0.321181568586991`, 0.3212236603987944`, 0.32126574669578456`,
0.3213078274801285`, 0.32134990275399183`, 0.3213919725195388`,
0.3214340367789323`, 0.32147609553433365`, 0.3215181487879028`,
0.3215601965417984`, 0.32160223879817756`, 0.321644275559196`,
0.3216863068270081`, 0.32172833260376676`, 0.32177035289162365`,
0.3218123676927287`, 0.3218543770092307`, 0.32189638084327693`,
0.3219383791970134`, 0.3219803720725846`, 0.32202235947213353`,
0.3220643413978021`, 0.32210631785173044`, 0.3221482888360576`,
0.3221902543529211`, 0.3222322144044571`, 0.3222741689928003`,
0.3223161181200841`, 0.3223580617884405`, 0.3224`, 0.3224419327568919`,
0.32248386006124397`, 0.3225257819151827`, 0.3225676983208331`,
0.3226096092803189`, 0.3226515147957623`, 0.32269341486928427`,
```

0.3227353095030044`, 0.3227771986990407`, 0.32281908245951013`,
0.32286096078652804`, 0.3229028336822085`, 0.3229447011486642`,
0.3229865631880063`, 0.3230284198023449`, 0.3230702709937886`,
0.32311211676444446`, 0.3231539571164184`, 0.3231957920518149`,
0.3232376215727371`, 0.32327944568128675`, 0.32332126437956415`,
0.3233630776696684`, 0.32340488555369723`, 0.32344668803374693`,
0.32348848511191247`, 0.32353027679028745`, 0.3235720630709641`,
0.32361384395603354`, 0.3236556194475851`, 0.32369738954770705`,
0.3237391542584863`, 0.3237809135820084`, 0.32382266752035754`,
0.32386441607561645`, 0.3239061592498667`, 0.32394789704518845`,
0.3239896294636605`, 0.32403135650736026`, 0.324073078178364`,
0.32411479447874636`, 0.324156505410581`, 0.32419821097593987`,
0.3242399111768938`, 0.32428160601551237`, 0.32432329549386363`,
0.32436497961401445`, 0.32440665837803023`, 0.32444833178797516`,
0.32448999984591204`, 0.3245316625539024`, 0.3245733199140065`,
0.3246149719282831`, 0.32465661859878975`, 0.3246982599275826`,
0.3247398959167167`, 0.32478152656824555`, 0.32482315188422145`,
0.3248647718666954`, 0.32490638651771686`, 0.32494799583933426`,
0.32498959983359466`, 0.3250311985025438`, 0.3250727918482259`,
0.3251143798726842`, 0.3251559625779604`, 0.3251975399660951`,
0.3252391120391273`, 0.325280678799095`, 0.3253222402480347`,
0.3253637963879817`, 0.32540534722097`, 0.3254468927490321`, 0.3254884329741996`,
0.3255299678985024`, 0.3255714975239694`, 0.32561302185262797`,
0.3256545408865045`, 0.32569605462762363`, 0.32573756307800916`,
0.32577906623968333`, 0.3258205641146673`, 0.3258620567049806`,
0.3259035440126419`, 0.3259450260396683`, 0.3259865027880756`,
0.3260279742598785`, 0.32606944045709035`, 0.32611090138172316`,
0.3261523570357878`, 0.32619380742129367`, 0.32623525254024893`,
0.3262766923946607`, 0.32631812698653445`, 0.32635955631787467`,
0.3264009803906845`, 0.32644239920696577`, 0.3264838127687191`,
0.3265252210779437`, 0.32656662413663773`, 0.3266080219467979`,
0.32664941451041973`, 0.3266908018294975`, 0.32673218390602415`,
0.3267735607419915`, 0.32681493233938996`, 0.32685629870020866`,
0.32689765982643565`, 0.3269390157200575`, 0.3269803663830598`,
0.3270217118174266`, 0.32706305202514085`, 0.32710438700818434`,
0.32714571676853726`, 0.32718704130817894`, 0.3272283606290873`,
0.3272696747332389`, 0.3273109836226093`, 0.32735228729917254`,
0.32739358576490163`, 0.32743487902176827`, 0.3274761670717428`,
0.32751744991679455`, 0.32755872755889137`, 0.3276`, 0.327641267242086`,
0.32768252928711356`, 0.32772378613704556`, 0.327765037793844`,
0.32780628425946934`, 0.3278475255358808`, 0.3278887616250365`,
0.32792999252889327`, 0.3279712182494068`, 0.3280124387885313`,
0.32805365414822013`, 0.32809486433042506`, 0.3281360693370968`,
0.3281772691701849`, 0.3282184638316376`, 0.3282596533234019`,

0.3283008376474237`, 0.32834201680564734`, 0.32838319080001643`,
0.328424359632473`, 0.32846552330495815`, 0.32850668181941145`,
0.32854783517777136`, 0.32858898338197523`, 0.32863012643395917`,
0.3286712643356581`, 0.3287123970890055`, 0.32875352469593383`,
0.32879464715837453`, 0.3288357644782574`, 0.3288768766575115`,
0.32891798369806413`, 0.328959085601842`, 0.32900018237077017`,
0.3290412740067726`, 0.3290823605117722`, 0.32912344188769055`,
0.329164518136448`, 0.3292055892599638`, 0.329246655260156`,
0.32928771613894137`, 0.32932877189823545`, 0.3293698225399528`,
0.3294108680660066`, 0.3294519084783089`, 0.3294929437787705`,
0.3295339739693011`, 0.32957499905180915`, 0.329616019028202`,
0.32965703390038564`, 0.32969804367026506`, 0.32973904833974393`,
0.3297800479107249`, 0.3298210423851092`, 0.32986203176479706`,
0.3299030160516876`, 0.3299439952476784`, 0.3299849693546662`,
0.3300259383745466`, 0.3300669023092137`, 0.33010786116056073`,
0.3301488149304795`, 0.33018976362086094`, 0.3302307072335945`,
0.3302716457705687`, 0.33031257923367074`, 0.33035350762478666`,
0.3303944309458015`, 0.3304353491985989`, 0.3304762623850615`,
0.33051717050707063`, 0.3305580735665066`, 0.33059897156524853`,
0.3306398645051743`, 0.33068075238816064`, 0.3307216352160832`,
0.33076251299081644`, 0.33080338571423357`, 0.33084425338820683`,
0.33088511601460713`, 0.33092597359530423`, 0.33096682613216694`,
0.3310076736270626`, 0.3310485160818577`, 0.33108935349841745`,
0.33113018587860577`, 0.3311710132242857`, 0.3312118355373189`,
0.3312526528195661`, 0.3312934650728867`, 0.33133427229913903`,
0.3313750745001803`, 0.3314158716778664`, 0.33145666383405237`,
0.3314974509705919`, 0.33153823308933766`, 0.3315790101921411`,
0.33161978228085254`, 0.3316605493573211`, 0.3317013114233949`,
0.33174206848092086`, 0.33178282053174485`, 0.3318235675777114`,
0.3318643096206641`, 0.33190504666244536`, 0.33194577870489633`,
0.3319865057498573`, 0.3320272277991671`, 0.33206794485466373`,
0.3321086569181839`, 0.3321493639915633`, 0.3321900660766363`,
0.3322307631752364`, 0.3322714552891957`, 0.3323121424203455`,
0.3323528245705157`, 0.33239350174153526`, 0.3324341739352319`,
0.33247484115343223`, 0.3325155033979619`, 0.3325561606706452`,
0.33259681297330557`, 0.33263746030776514`, 0.3326781026758449`,
0.33271874007936497`, 0.33275937252014404`, 0.33280000000000004`,
0.3328406225207494`, 0.33288124008420783`, 0.3329218526921896`,
0.33296246034650817`, 0.3330030630489756`, 0.3330436608014031`,
0.33308425360560057`, 0.33312484146337695`, 0.33316542437654`,
0.3332060023468965`, 0.33324657537625196`, 0.333287143466411`,
0.3333277066191768`, 0.33336826483635185`, 0.3334088181197372`,
0.3334493664711331`, 0.3334899098923384`, 0.33353044838515117`,
0.3335709819513682`, 0.3336115105927852`, 0.3336520343111967`,

0.3336925531083965`, 0.33373306698617683`, 0.3337735759463292`,
0.3338140799906439`, 0.33385457912091004`, 0.3338950733389159`,
0.3339355626464483`, 0.3339760470452934`, 0.3340165265372359`,
0.3340570011240597`, 0.3340974708075474`, 0.3341379355894808`,
0.3341783954716403`, 0.33421885045580535`, 0.3342593005437545`,
0.33429974573726495`, 0.334340186038113`, 0.33438062144807373`,
0.3344210519689214`, 0.33446147760242884`, 0.33450189835036814`,
0.33454231421451014`, 0.3345827251966246`, 0.3346231312984803`,
0.334663532521845`, 0.3347039288684852`, 0.3347443203401665`,
0.33478470693865336`, 0.33482508866570915`, 0.3348654655230963`,
0.3349058375125761`, 0.3349462046359087`, 0.3349865668948533`,
0.335026924291168`, 0.33506727682660986`, 0.3351076245029349`,
0.335147967321898`, 0.33518830528525306`, 0.3352286383947529`,
0.33526896665214934`, 0.33530929005919297`, 0.3353496086176336`,
0.3353899223292197`, 0.33543023119569887`, 0.3354705352188177`,
0.3355108344003216`, 0.3355511287419549`, 0.3355914182454611`,
0.3356317029125825`, 0.3356719827450602`, 0.33571225774463465`,
0.3357525279130449`, 0.33579279325202915`, 0.3358330537633245`,
0.335873309448667`, 0.33591356030979164`, 0.33595380634843236`,
0.33599404756632223`, 0.3360342839651931`, 0.33607451554677575`,
0.33611474231280014`, 0.3361549642649949`, 0.336195181405088`,
0.336235393734806`, 0.3362756012558747`, 0.33631580397001865`,
0.3363560018789616`, 0.336396194984426`, 0.33643638328813374`,
0.336476566791805`, 0.3365167454971595`, 0.33655691940591564`,
0.336597088519791`, 0.3366372528405019`, 0.33667741236976384`,
0.3367175671092912`, 0.3367577170607973`, 0.33679786222599456`,
0.33683800260659424`, 0.33687813820430673`, 0.3369182690208413`,
0.3369583950579062`, 0.33699851631720873`, 0.3370386328004551`,
0.33707874450935055`, 0.3371188514455992`, 0.3371589536109044`,
0.3371990510069683`, 0.337239143635492`, 0.3372792314981757`,
0.3373193145967186`, 0.33735939293281875`, 0.3373994665081733`,
0.33743953532447857`, 0.3374795993834294`, 0.33751965868672007`,
0.33755971323604367`, 0.3375997630330922`, 0.33763980807955685`,
0.3376798483771278`, 0.33771988392749397`, 0.33775991473234357`,
0.3377999407933637`, 0.3378399621122403`, 0.3378799786906587`,
0.3379199905303029`, 0.337959997632856`, 0.338`, 0.3380399976334162`,
0.3380799905347846`, 0.33811997870578425`, 0.33815996214809346`,
0.3381999408633893`, 0.33823991485334787`, 0.3382798841196444`,
0.3383198486639529`, 0.3383598084879467`, 0.33839976359329804`,
0.338439713981678`, 0.33847965965475685`, 0.3385196006142037`,
0.338559536861687`, 0.3385994683988739`, 0.3386393952274307`,
0.3386793173490227`, 0.3387192347653142`, 0.3387591474779685`,
0.338799055488648`, 0.3388389587990141`, 0.33887885741072726`,
0.33891875132544674`, 0.3389586405448311`, 0.33899852507053774`,

0.3390384049042232`, 0.33907828004754303`, 0.33911815050215166`,
0.3391580162697028`, 0.33919787735184903`, 0.3392377337502419`,
0.33927758546653214`, 0.3393174325023694`, 0.3393572748594024`,
0.339397112539279`, 0.33943694554364584`, 0.33947677387414893`,
0.33951659753243285`, 0.3395564165201418`, 0.3395962308389185`,
0.33963604049040497`, 0.3396758454762423`, 0.33971564579807034`,
0.3397554414575284`, 0.3397952324562544`, 0.33983501879588573`,
0.3398748004780584`, 0.33991457750440773`, 0.33995434987656803`,
0.33999411759617254`, 0.34003388066485374`, 0.3400736390842431`,
0.3401133928559709`, 0.34015314198166685`, 0.3401928864629595`,
0.34023262630147627`, 0.3402723614988441`, 0.34031209205668844`,
0.3403518179766343`, 0.34039153926030535`, 0.3404312559093245`,
0.34047096792531373`, 0.34051067530989393`, 0.3405503780646852`,
0.34059007619130655`, 0.3406297696913762`, 0.3406694585665114`,
0.34070914281832826`, 0.34074882244844223`, 0.3407884974584676`,
0.34082816785001796`, 0.34086783362470563`, 0.3409074947841423`,
0.3409471513299385`, 0.34098680326370406`, 0.34102645058704756`,
0.34106609330157694`, 0.3411057314088991`, 0.3411453649106199`,
0.3411849938083444`, 0.3412246181036767`, 0.34126423779821996`,
0.34130385289357634`, 0.34134346339134725`, 0.34138306929313295`,
0.34142267060053294`, 0.3414622673151457`, 0.3415018594385688`,
0.34154144697239897`, 0.34158102991823186`, 0.34162060827766233`,
0.3416601820522842`, 0.3416997512436906`, 0.34173931585347334`,
0.3417788758832237`, 0.34181843133453177`, 0.3418579822089869`,
0.3418975285081774`, 0.3419370702336908`, 0.34197660738711355`,
0.3420161399700312`, 0.3420556679840286`, 0.34209519143068934`,
0.3421347103115964`, 0.34217422462833175`, 0.3422137343824762`,
0.34225323957561016`, 0.3422927402093127`, 0.342332236285162`,
0.3423717278047356`, 0.34241121476961006`, 0.3424506971813607`,
0.3424901750415623`, 0.3425296483517887`, 0.3425691171136126`,
0.34260858132860594`, 0.3426480409983399`, 0.3426874961243845`,
0.3427269467083089`, 0.3427663927516815`, 0.3428058342560698`,
0.3428452712230402`, 0.34288470365415835`, 0.34292413155098905`,
0.3429635549150959`, 0.34300297374804206`, 0.34304238805138937`,
0.34308179782669906`, 0.34312120307553134`, 0.34316060379944546`,
0.3432`, 0.3432393916787524`, 0.3432787788372593`, 0.34331816147707656`,
0.3433575395975895`, 0.3433969132068603`, 0.3434362822999340`,
0.34347564688053217`, 0.3435150069502059`, 0.34355436251050575`,
0.34359371356298124`, 0.34363306010918104`, 0.3436724021506528`,
0.3437117396889434`, 0.3437510727255989`, 0.34379040126216437`,
0.343829725300184`, 0.3438690448412012`, 0.3439083598867582`,
0.3439476704383968`, 0.3439869764976575`, 0.34402627806608027`,
0.344065575145204`, 0.3441048677365666`, 0.34414415584170543`,
0.34418343946215657`, 0.3442227185994556`, 0.344261993255137`,

```
0.34430126343073447`, 0.34434052912778074`, 0.34437979034780775`,
0.34441904709234655`, 0.34445829936292727`, 0.3444975471610792`,
0.34453679048833086`, 0.34457602934620973`, 0.34461526373624257`,
0.3446544936599551`, 0.34469371911887225`, 0.3447329401145182`,
0.34477215664841615`, 0.3448113687220884`, 0.34485057633705646`,
0.34488977949484095`, 0.34492897819696156`, 0.3449681724449373`,
0.34500736224028616`, 0.3450465475845252`, 0.3450857284791708`,
0.3451249049257385`, 0.34516407692574264`, 0.3452032444806972`,
0.3452424075921149`, 0.3452815662615078`, 0.34532072049038703`,
0.3453598702802629`, 0.3453990156326448`, 0.34543815654904136`,
0.34547729303096025`, 0.3455164250799085`, 0.3455555526973919`,
0.3455946758849158`, 0.3456337946439844`, 0.34567290897610126`,
0.345712018882769`, 0.3457511243654892`, 0.345790225425763`,
0.34582932206509037`, 0.34586841428497056`, 0.34590750208690185`,
0.3459465854723819`, 0.34598566444290724`, 0.3460247389999738`,
0.3460638091450766`, 0.34610287487970975`, 0.3461419362053665`,
0.34618099312353934`, 0.34622004563571995`, 0.346259093743399`,
0.34629813744806653`, 0.3463371767512116`, 0.3463762116543225`,
0.3464152421588865`, 0.3464542682663904`, 0.3464932899783198`,
0.34653230729615964`, 0.346571320221394`, 0.34661032875550607`,
0.34664933289997835`, 0.34668833265629234`, 0.34672732802592876`,
0.3467663190103676`, 0.3468053056110878`, 0.3468442878295677`,
0.34688326566728467`, 0.3469222391257153`, 0.34696120820633536`,
0.34700017291061974`, 0.3470391332400426`, 0.3470780891960771`,
0.3471170407801957`, 0.34715598799387`, 0.34719493083857084`,
0.3472338693157682`, 0.3472728034269312`, 0.34731173317352815`,
0.3473506585570265`, 0.347389579578893`, 0.34742849624059335`,
0.3474674085435928`, 0.34750631648935537`, 0.3475452200793445`,
0.3475841193150228`, 0.34762301419785196`, 0.34766190472929304`,
0.3477007909108059`, 0.34773967274385015`, 0.3477785502298841`,
0.3478174233703654`, 0.34785629216675096`, 0.34789515662049686`,
0.3479340167330582`, 0.34797287250588943`, 0.3480117239404443`,
0.34805057103817544`, 0.34808941380053493`, 0.3481282522289738`,
0.34816708632494253`, 0.3482059160898907`, 0.348244741525267`,
0.3482835626325193`, 0.34832237941309485`, 0.3483611918684399`,
0.34840000000000004`, 0.3484388038092198`, 0.3484776032975434`,
0.34851639846641363`, 0.348555189317273`, 0.3485939758515629`,
0.3486327580707241`, 0.3486715359761964`, 0.34871030956941895`,
0.3487490788518301`, 0.34878784382486727`, 0.3488266044899672`,
0.3488653608485658`, 0.34890411290209805`, 0.3489428606519985`,
0.3489816040997004`, 0.34902034324663656`, 0.349059078094239`,
0.34909780864393863`, 0.349136534897166`, 0.3491752568553505`,
0.3492139745199209`, 0.3492526878923053`, 0.34929139697393063`,
0.3493301017662234`, 0.3493688022706092`, 0.3494074984885127`,
```

```
0.349446190421358`, 0.3494848780705683`, 0.3495235614375661`,
0.3495622405237728`, 0.3496009153306095`, 0.34963958585949617`,
0.3496782521118521`, 0.3497169140890958`, 0.34975557179264494`,
0.3497942252239165`, 0.34983287438432653`, 0.3498715192752906`,
0.34991015989822305`, 0.34994879625453784`, 0.3499874283456479`,
0.35002605617296556`, 0.3500646797379021`, 0.3501032990418685`,
0.3501419140862745`, 0.35018052487252915`, 0.3502191314020409`,
0.3502577336762174`, 0.35029633169646524`, 0.35033492546419065`,
0.3503735149807988`, 0.3504121002476941`, 0.3504506812662803`,
0.35048925803796044`, 0.3505278305641365`, 0.35056639884621005`,
0.3506049628855815`, 0.3506435226836509`, 0.35068207824181724`,
0.35072062956147876`, 0.3507591766440331`, 0.35079771949087696`,
0.3508362581034064`, 0.3508747924830167`, 0.3509133226311022`,
0.3509518485490567`, 0.35099037023827306`, 0.35102888770014357`,
0.3510674009360596`, 0.3511059099474118`, 0.35114441473558994`,
0.3511829153019833`, 0.35122141164798026`, 0.35125990377496835`,
0.35129839168433435`, 0.3513368753774645`, 0.351375354855744`,
0.35141383012055744`, 0.35145230117328863`, 0.3514907680153207`,
0.35152923064803593`, 0.3515676890728157`, 0.35160614329104095`,
0.35164459330409165`, 0.3516830391133471`, 0.3517214807201858`,
0.3517599181259855`, 0.3517983513321232`, 0.3518367803399753`,
0.3518752051509171`, 0.3519136257663235`, 0.35195204218756854`,
0.35199045441602533`, 0.3520288624530665`, 0.35206726630006374`,
0.35210566595838816`, 0.3521440614294099`, 0.35218245271449855`,
0.3522208398150229`, 0.3522592227323509`, 0.35229760146784994`,
0.3523359760228864`, 0.35237434639882625`, 0.35241271259703444`,
0.3524510746188753`, 0.35248943246571235`, 0.3525277861389085`,
0.35256613563982575`, 0.35260448096982544`, 0.3526428221302682`,
0.35268115912251397`, 0.35271949194792174`, 0.35275782060784994`,
0.35279614510365614`, 0.3528344654366974`, 0.3528727816083298`,
0.3529110936199088`, 0.352949401472789`, 0.35298770516832456`,
0.3530260047078685`, 0.3530643000927735`, 0.3531025913243912`,
0.3531408784040726`, 0.3531791613331682`, 0.35321744011302725`,
0.3532557147449989`, 0.35329398523043104`, 0.3533322515706711`,
0.3533705137670658`, 0.3534087718209609`, 0.35344702573370174`,
0.35348527550663267`, 0.35352352114109753`, 0.35356176263843914`,
0.35359999999999997`, 0.3536382332271215`, 0.3536764623211446`,
0.35371468728340927`, 0.3537529081525495`, 0.3537911248180203`,
0.3538293373930432`, 0.35386754584166097`, 0.3539057501652099`,
0.353943950365026`, 0.3539821464424442`, 0.35402033839879876`,
0.3540585262354234`, 0.35409670995365095`, 0.35413488955481354`,
0.3541730650402427`, 0.35421123641126917`, 0.35424940366922286`,
0.35428756681543316`, 0.3543257258512286`, 0.35436388077793707`,
0.35440203159688577`, 0.35444017830940105`, 0.3544783209168087`,
```

```
0.3545164594204337`, 0.3545545938216003`, 0.3545927241216323`,
0.3546308503218523`, 0.35466897242358264`, 0.3547070904281447`,
0.3547452043368592`, 0.3547833141510463`, 0.3548214198720252`,
0.35485952150111455`, 0.3548976190396323`, 0.3549357124888956`,
0.3549738018502211`, 0.3550118871249243`, 0.35504996831432056`,
0.35508804541972405`, 0.35512611844244857`, 0.35516418738380706`,
0.35520225224511176`, 0.3552403130276743`, 0.3552783697328054`,
0.35531642236181543`, 0.3553544709160137`, 0.35539251539670896`,
0.3554305558052093`, 0.3554685921428221`, 0.355506624410854`,
0.35554465261061097`, 0.3555826767433982`, 0.35562069681052033`,
0.3556587128132812`, 0.3556967247529839`, 0.3557347326309311`,
0.35577273644842433`, 0.3558107362067649`, 0.355848731907253`,
0.3558867235511884`, 0.3559247111398702`, 0.35596269467459646`,
0.35600067415666503`, 0.35603864958737275`, 0.35607662096801584`,
0.3561145882998898`, 0.35615255158428955`, 0.35619051082250913`,
0.3562284660158422`, 0.35626641716558133`, 0.3563043642730187`,
0.3563423073394458`, 0.3563802463661531`, 0.35641818135443093`,
0.3564561123055684`, 0.3564940392208543`, 0.35653196210157656`,
0.35656988094902237`, 0.3566077957644785`, 0.3566457065492307`,
0.3566836133045644`, 0.3567215160317639`, 0.3567594147321133`,
0.3567973094068956`, 0.35683520005739344`, 0.3568730866848886`,
0.3569109692906622`, 0.3569488478759947`, 0.35698672244216595`,
0.35702459299045497`, 0.35706245952214016`, 0.35710032203849945`,
0.35713818054080976`, 0.3571760350303475`, 0.3572138855083884`,
0.35725173197620747`, 0.3572895744350792`, 0.3573274128862772`,
0.35736524733107444`, 0.3574030777707433`, 0.35744090420655555`,
0.35747872663978203`, 0.35751654507169317`, 0.35755435950355857`,
0.3575921699366473`, 0.3576299763722275`, 0.357667778811567`,
0.35770557725593266`, 0.3577433717065908`, 0.35778116216480715`,
0.3578189486318465`, 0.35785673110897326`, 0.3578945095974511`,
0.3579322840985429`, 0.35797005461351095`, 0.3580078211436169`,
0.3580455836901218`, 0.35808334225428584`, 0.3581210968373687`,
0.3581588474406293`, 0.35819659406532606`, 0.3582343367127166`,
0.3582720753840578`, 0.3583098100806061`, 0.3583475408036171`,
0.35838526755434574`, 0.3584229903340465`, 0.35846070914397304`,
0.35849842398537823`, 0.3585361348595145`, 0.3585738417676337`,
0.35861154471098666`, 0.35864924369082396`, 0.35868693870839513`,
0.3587246297649494`, 0.3587623168617351`, 0.3588000000000006`,
0.35883767918099124`, 0.3588753544059553`, 0.3589130256761379`,
0.3589506929927842`, 0.3589883563571387`, 0.3590260157704453`,
0.35906367123394706`, 0.3591013227488866`, 0.35913897031650577`,
0.35917661393804584`, 0.35921425361474735`, 0.35925188934785024`,
0.35928952113859375`, 0.3593271489882166`, 0.3593647728979567`,
0.35940239286905146`, 0.3594400089027375`, 0.3594776210002509`,
```

```
0.35951522916282697`, 0.3595528333917006`, 0.35959043368810584`,
0.35962803005327604`, 0.35966562248844414`, 0.3597032109948422`,
0.359740795573702`, 0.359778376226254`, 0.35981595295372887`,
0.3598535257573559`, 0.35989109463836416`, 0.359928659597982`,
0.35996622063743705`, 0.36000377775795633`, 0.3600413309607662`,
0.3600788802470925`, 0.3601164256181604`, 0.3601539670751941`,
0.36019150461941774`, 0.3602290382520543`, 0.3602665679743265`,
0.3603040937874562`, 0.36034161569266465`, 0.3603791336911725`,
0.36041664778419999`, 0.3604541579729661`, 0.36049166425868995`,
0.3605291666425894`, 0.3605666651258821`, 0.3606041597097848`,
0.3606416503955138`, 0.3606791371842846`, 0.3607166200773122`,
0.3607540990758109`, 0.3607915741809944`, 0.3608290453940758`,
0.36086651271626746`, 0.3609039761487812`, 0.3609414356928282`,
0.3609788913496189`, 0.3610163431203635`, 0.361053791006271`,
0.3610912350085502`, 0.36112867512840907`, 0.361166111367055`,
0.36120354372569496`, 0.36124097220553486`, 0.3612783968077804`,
0.3613158175336364`, 0.36135323438430716`, 0.3613906473609963`,
0.361428056464907`, 0.3614654616972416`, 0.36150286305920176`,
0.36154026055198885`, 0.3615776541768033`, 0.3616150439348451`,
0.36165242982731366`, 0.36168981185540744`, 0.36172719002032455`,
0.3617645643232626`, 0.36180193476541833`, 0.3618393013479879`,
0.361876664072167`, 0.36191402293915054`, 0.361951377950133`,
0.36198872910630797`, 0.3620260764088687`, 0.3620634198590076`,
0.36210075945791664`, 0.3621380952067871`, 0.36217542710680967`,
0.3622127551591744`, 0.3622500793650707`, 0.3622873997256874`,
0.3623247162422128`, 0.36236202891583436`, 0.36239933774773925`,
0.3624366427391138`, 0.3624739438911437`, 0.3625112412050142`,
0.3625485346819099`, 0.3625858243230146`, 0.36262311012951176`,
0.36266039210258405`, 0.36269767024341365`, 0.36273494455318195`,
0.36277221503307006`, 0.3628094816842581`, 0.36284674450792587`,
0.36288400350525235`, 0.36292125867741615`, 0.3629585100255951`,
0.3629957575509664`, 0.3630330012547069`, 0.36307024113799247`,
0.3631074772019987`, 0.3631447094479004`, 0.36318193787687186`,
0.36321916249008673`, 0.363256383288718`, 0.3632936002739382`,
0.36333081344691925`, 0.36336802280883224`, 0.36340522836084793`,
0.3634424301041363`, 0.36347962803986694`, 0.3635168221692086`,
0.3635540124933295`, 0.3635911990133975`, 0.36362838173057943`,
0.36366556064604194`, 0.3637027357609508`, 0.3637399070764713`,
0.36377707459376823`, 0.36381423831400556`, 0.3638513982383468`,
0.3638885543679548`, 0.36392570670399205`, 0.36396285524762007`,
0.364`, 0.3640371409622925`, 0.36407427813565735`, 0.36411141152125404`,
0.36414854112024125`, 0.3641856669337771`, 0.3642227889630192`,
0.3642599072091245`, 0.3642970216732495`, 0.3643341323565499`,
0.3643712392601809`, 0.36440834238529723`, 0.3644454417330529`,
```

0.3644825373046012`, 0.3645196291010952`, 0.3645567171236871`,
0.36459380137352854`, 0.3646308818517707`, 0.3646679585595642`,
0.3647050314980587`, 0.3647421006684038`, 0.36477916607174815`,
0.36481622770924`, 0.3648532855820268`, 0.3648903396912558`,
0.3649273900380732`, 0.36496443662362504`, 0.3650014794490565`,
0.3650385185155123`, 0.3650755538241365`, 0.3651125853760728`,
0.36514961317246386`, 0.3651866372144523`, 0.36522365750317987`,
0.3652606740397876`, 0.3652976868254164`, 0.3653346958612062`,
0.3653717011482964`, 0.365408702687826`, 0.3654457004809333`,
0.36548269452875604`, 0.3655196848324314`, 0.365556671393096`,
0.36559365421188594`, 0.3656306332899365`, 0.36566760862838266`,
0.3657045802283586`, 0.3657415480909983`, 0.3657785122174347`,
0.36581547260880043`, 0.3658524292662275`, 0.36588938219084743`,
0.36592633138379094`, 0.3659632768461885`, 0.3660002185791697`,
0.3660371565838638`, 0.36607409086139925`, 0.3661110214129042`,
0.3661479482395061`, 0.3661848713423317`, 0.3662217907225074`,
0.3662587063811589`, 0.36629561831941154`, 0.3663325265383897`,
0.3663694310392176`, 0.36640633182301857`, 0.3664432288909157`,
0.36648012224403115`, 0.3665170118834868`, 0.3665538978104039`,
0.366590780025903`, 0.3666276585311043`, 0.36666453332712723`,
0.36670140441509086`, 0.36673827179611346`, 0.366775135471313`,
0.3668119954418067`, 0.36684885170871123`, 0.3668857042731428`,
0.366922553136217`, 0.3669593982990489`, 0.36699623976275286`,
0.36703307752844294`, 0.3670699115972324`, 0.3671067419702341`,
0.3671435686485602`, 0.3671803916333224`, 0.36721721092563187`,
0.3672540265265992`, 0.3672908384373343`, 0.3673276466589467`,
0.36736445119254535`, 0.36740125203923846`, 0.3674380492001339`,
0.3674748426763389`, 0.3675116324689601`, 0.3675484185791037`,
0.3675852010078752`, 0.36762197975637967`, 0.3676587548257215`,
0.36769552621700474`, 0.3677322939313326`, 0.367769057969808`,
0.36780581833353315`, 0.36784257502360984`, 0.36787932804113904`,
0.36791607738722154`, 0.3679528230629574`, 0.367989565069446`,
0.3680263034077863`, 0.3680630380790769`, 0.3680997690844155`,
0.36813649642489943`, 0.3681732201016255`, 0.36820994011568997`,
0.36824665646818844`, 0.36828336916021615`, 0.3683200781928675`,
0.36835678356723667`, 0.36839348528441707`, 0.3684301833455017`,
0.368466877751583`, 0.36850356850375277`, 0.36854025560310233`,
0.3685769390507225`, 0.36861361884770344`, 0.36865029499513496`,
0.36868696749410607`, 0.3687236363457054`, 0.36876030155102113`,
0.36879696311114063`, 0.36883362102715095`, 0.36887027530013855`,
0.3689069259311893`, 0.36894357292138863`, 0.36898021627182126`,
0.3690168559835716`, 0.3690534920577233`, 0.36909012449535955`,
0.3691267532975631`, 0.369163378465416`, 0.3692`, 0.36923661790239604`,
0.36927323217368463`, 0.36930984281494583`, 0.36934644982725906`,

```
0.3693830532117033`, 0.3694196529693568`, 0.36945624910129754`,
0.3694928416086028`, 0.36952943049234926`, 0.36956601575361336`,
0.3696025973934707`, 0.3696391754129965`, 0.36967574981326545`,
0.36971232059535153`, 0.36974888776032855`, 0.3697854513092694`,
0.3698220112432466`, 0.3698585675633323`, 0.3698951202705978`,
0.3699316693661142`, 0.36996821485095177`, 0.3700047567261805`,
0.3700412949928697`, 0.37007782965208813`, 0.37011436070490433`,
0.3701508881523858`, 0.3701874119955999`, 0.37022393223561334`,
0.3702604488734923`, 0.3702969619103025`, 0.370333471347109`,
0.3703699771849765`, 0.370406479424969`, 0.3704429780681502`,
0.37047947311558305`, 0.37051596456833`, 0.37055245242745327`,
0.3705889366940141`, 0.3706254173690736`, 0.37066189445369213`,
0.3706983679489296`, 0.37073483785584543`, 0.3707713041754985`,
0.37080776690894707`, 0.37084422605724904`, 0.3708806816214617`,
0.37091713360264184`, 0.37095358200184564`, 0.37099002682012894`,
0.371026468058547`, 0.3710629057181545`, 0.3710993398000056`,
0.37113577030515393`, 0.3711721972346528`, 0.3712086205895547`,
0.37124504037091194`, 0.3712814565797759`, 0.3713178692171978`,
0.3713542782842282`, 0.3713906837819172`, 0.3714270857113143`,
0.3714634840734685`, 0.3714998788694284`, 0.37153627010024204`,
0.3715726577669568`, 0.37160904187061977`, 0.37164542241227727`,
0.3716817993929754`, 0.3717181728137596`, 0.37175454267567465`,
0.37179090897976513`, 0.3718272717270749`, 0.3718636309186474`,
0.3718999865555254`, 0.37193633863875153`, 0.3719726871693673`,
0.3720090321484144`, 0.3720453735769335`, 0.372081711455965`,
0.3721180457865488`, 0.3721543765697241`, 0.37219070380652985`,
0.3722270274980042`, 0.3722633476451852`, 0.37229966424911`,
0.37233597731081536`, 0.3723722868313377`, 0.3724085928117127`,
0.3724448952529757`, 0.3724811941561614`, 0.3725174895223042`,
0.3725537813524378`, 0.37259006964759545`, 0.37262635440880987`,
0.3726626356371135`, 0.37269891333353794`, 0.3727351874991145`,
0.3727714581348739`, 0.37280772524184635`, 0.37284398882106173`,
0.3728802488735492`, 0.3729165054003376`, 0.372952758402455`,
0.37298900788092937`, 0.3730252538367878`, 0.3730614962710571 7`,
0.3730977351847637`, 0.37313397057893294`, 0.3731702024545904`,
0.3732064308127608`, 0.37324265565446835`, 0.37327887698073675`,
0.3733150947925 8934`, 0.3733513090910 4897`, 0.3733875198771378`,
0.3734237271518777`, 0.3734599309162899`, 0.3734961311713952`,
0.37353232791821384`, 0.3735685211577657`, 0.37360471089107`,
0.37364089711914567`, 0.37367707984301096`, 0.37371325906368374`,
0.3737494347821813`, 0.3737856069995205`, 0.3738217757167177`,
0.37385794093478875`, 0.3738941026547491`, 0.3739302608776134`,
0.3739664156043962`, 0.37400256683611144`, 0.37403871457377247`,
0.3740748588183921`, 0.3741109995709829`, 0.37414713683255685`,
```

```
0.37418327060412526`, 0.37421940088669914`, 0.37425552768128895`,
0.37429165098890466`, 0.3743277708105558`, 0.3743638871472514`,
0.3744`, 0.3744361093698096`, 0.3744722152576877`, 0.3745083176646415`,
0.3745444165916775`, 0.3745805120398017`, 0.37461660401001984`,
0.374652692503337`, 0.37468877752075785`, 0.37472485906328656`,
0.3747609371319268`, 0.37479701172768176`, 0.37483308285155403`,
0.37486915050454606`, 0.3749052146876594`, 0.3749412754018954`,
0.37497733264825495`, 0.37501338642773807`, 0.37504943674134483`,
0.37508548359007443`, 0.37512152697492585`, 0.37515756689689733`,
0.3751936033569869`, 0.3752296363561919`, 0.37526566589550936`,
0.37530169197593555`, 0.37533771459846665`, 0.3753737337640981`,
0.37540974947382494`, 0.37544576172864175`, 0.3754817705295425`,
0.3755177758775209`, 0.37555377777357`, 0.3755897762186825`,
0.3756257712138506`, 0.3756617627600659`, 0.37569775085831963`,
0.3757337355096026`, 0.3757697167149051`, 0.3758056944752168`,
0.3758416687915272`, 0.375877639664825`, 0.37591360709609856`,
0.37594957108633603`, 0.3759855316365246`, 0.37602148874765123`,
0.37605744242070255`, 0.3760933926566645`, 0.3761293394565226`,
0.376165282821262`, 0.37620122275186724`, 0.3762371592493224`,
0.3762730923146113`, 0.37630902194871707`, 0.37634494815262237`,
0.37638087092730954`, 0.3764167902737603`, 0.37645270619295595`,
0.3764886186858774`, 0.37652452775350503`, 0.37656043339681883`,
0.37659633561679806`, 0.37663223441442184`, 0.37666812979066866`,
0.37670402174651657`, 0.37673991028294307`, 0.37677579540092543`,
0.37681167710144015`, 0.3768475553854635`, 0.37688343025397125`,
0.3769193017079385`, 0.3769551697483402`, 0.3769910343761506`,
0.37702689559234365`, 0.3770627533978927`, 0.3770986077937706`,
0.3771344587809499`, 0.37717030636040266`, 0.37720615053310036`,
0.3772419913000142`, 0.37727782866211473`, 0.3773136626203721`,
0.3773494931757561`, 0.3773853203292359`, 0.37742114408178035`,
0.3774569644343578`, 0.377492781387936`, 0.3775285949434824`,
0.37756440510196404`, 0.37760021186434733`, 0.3776360152315984`,
0.37767181520468274`, 0.37770761178456547`, 0.37774340497221126`,
0.3777791947685844`, 0.3778149811746485`, 0.377850764191367`,
0.3778865438197026`, 0.37792232006061777`, 0.3779580929150744`,
0.377993862384034`, 0.3780296284684575`, 0.37806539116930554`,
0.3781011504875382`, 0.3781369064241151`, 0.3781726589799956`,
0.37820840815613815`, 0.37824415395350136`, 0.37827989637304277`,
0.37831563541572005`, 0.37835137108248995`, 0.37838710337430903`,
0.37842283229213325`, 0.3784585578369183`, 0.3784942800096192`,
0.37852999988111907`, 0.37856571424258695`, 0.37860142630476185`,
0.37863713499866863`, 0.37867284032526016`, 0.378708542285489`,
0.378744240880307`, 0.37877993611066574`, 0.3788156279775162`,
0.3788513164818093`, 0.37888700162449496`, 0.37892268340652296`,
```

0.3789583618288426`, 0.37899403689240285`, 0.379029708598152`,
0.379065376947038`, 0.37910104194000843`, 0.3791367035780102`,
0.3791723618619901`, 0.3792080167928943`, 0.37924366837166845`,
0.3792793165992578`, 0.3793149614766072`, 0.3793506030046611`,
0.3793862411843635`, 0.3794218760166577`, 0.379457507502487`,
0.37949313564279397`, 0.37952876043852063`, 0.3795643818906089`,
0.3796`, 0.3796356147676348`, 0.3796712261944537`, 0.3797068342813967`,
0.3797424390294032`, 0.37977804043941243`, 0.37981363851236305`,
0.37984923324919323`, 0.3798848246508407`, 0.3799204127182429`,
0.3799559974523366`, 0.3799915788540583`, 0.3800271569243441`,
0.38006273166412935`, 0.3800983030743495`, 0.380133871155939`,
0.38016943590983215`, 0.38020499733696295`, 0.3802405554382646`,
0.3802761102146702`, 0.3803116616671122`, 0.3803472097965227`,
0.3803827546038332`, 0.3804182960899751`, 0.38045383425587925`,
0.3804893691024757`, 0.3805249006306946`, 0.38056042884146535`,
0.380595953735717`, 0.3806314753143781`, 0.3806669935783769`,
0.38070250852864107`, 0.380738020166098`, 0.38077352849167445`,
0.38080903350629697`, 0.38084453521089157`, 0.3808800336063837`,
0.38091552869369866`, 0.38095102047376117`, 0.3809865089474954`,
0.3810219941158253`, 0.3810574759796742`, 0.3810929545399652`,
0.38112842979762085`, 0.38116390175356324`, 0.3811993704087141`,
0.3812348357639947`, 0.3812702978203259`, 0.3813057565786281`,
0.38134121203982135`, 0.38137666420482524`, 0.3814121130745588`,
0.3814475586499408`, 0.3814830009318895`, 0.3815184399213228`,
0.38155387561915816`, 0.3815893080263125`, 0.3816247371437025`,
0.3816601629722442`, 0.38169558551285343`, 0.3817310047664455`,
0.3817664207339352`, 0.381801833416237`, 0.38183724281426507`,
0.38187264892893286`, 0.38190805176115367`, 0.38194345131184015`,
0.38197884758190476`, 0.38201424057225924`, 0.38204963028381533`,
0.3820850167174 84`, 0.3821203998741758`, 0.3821557797548011`,
0.38219115636026957`, 0.3822265296914907`, 0.3822618997493734`,
0.38229726653482626`, 0.3823326300487574`, 0.3823679902920745`,
0.38240334726568487`, 0.3824387009704954`, 0.3824740514074125`,
0.3825093985773422`, 0.3825447424811901`, 0.38258008311986136`,
0.3826154204942608`, 0.38265075460529274`, 0.38268608545386124`,
0.3827214130408697`, 0.38275673736722127`, 0.38279205843381864`,
0.38282737624156404`, 0.38286269079135 93`, 0.38289800208410596`,
0.38293331012070503`, 0.38296861490205697`, 0.3830039164290621`,
0.38303921470262 02`, 0.38307450972363066`, 0.38310980149299234`,
0.38314509001160385`, 0.38318037528036325`, 0.38321565730016827`,
0.3832509360719162`, 0.38328621159650395`, 0.383321483874828`,
0.3833567529077843`, 0.3833920186962686`, 0.3834272812411762`,
0.3834625405434017`, 0.3834977966038397`, 0.3835330494233841`,
0.3835682990029286`, 0.3836035453433662`, 0.3836387884455898`,

```
0.38367402831049174`, 0.3837092649389639`, 0.3837444983318979`,
0.3837797284901848`, 0.3838149554147154`, 0.38385017910638003`,
0.38388539956606843`, 0.38392061679467027`, 0.3839558307930745`,
0.3839910415621698`, 0.38402624910284455`, 0.3840614534159866`,
0.38409665450248326`, 0.3841318523632217`, 0.38416704699908866`,
0.38420223841097023`, 0.38423742659975224`, 0.3842726115663202`,
0.38430779331155906`, 0.3843429718363535`, 0.38437814714158763`,
0.38441331922814537`, 0.3844484880969101`, 0.38448365374876475`,
0.38451881618459194`, 0.3845539754052739`, 0.38458913141169243`,
0.38462428420472883`, 0.3846594337852641`, 0.38469458015417896`,
0.38472972331235344`, 0.3847648632606673`, 0.38480000000000003`,
0.38483513353123044`, 0.38487026385523737`, 0.3849053909728987`,
0.38494051488509234`, 0.3849756355926957`, 0.3850107530965856`,
0.38504586739763874`, 0.3850809784967313`, 0.38511608639473893`,
0.3851511910925371`, 0.3851862925910007`, 0.3852213908910044`,
0.3852564859934223`, 0.38529157789912827`, 0.38532666660899556`,
0.3853617521238972`, 0.38539683444470585`, 0.3854319135722936`,
0.3854669895075323`, 0.3855020622512933`, 0.3855371318044476`,
0.3855721981678658`, 0.38560726134241824`, 0.3856423213289745`,
0.38567737812840414`, 0.38571243174157616`, 0.3857474821693591`,
0.3857825294126213`, 0.38581757347223056`, 0.38585261434905427`,
0.3858876520439596`, 0.38592268655781303`, 0.3859577178914809`,
0.3859927460458292`, 0.38602777102172325`, 0.3860627928200282`,
0.38609781144160865`, 0.3861328268873291`, 0.38616783915805314`,
0.38620284825464457`, 0.38623785417796636`, 0.3862728569288813`,
0.3863078565082517`, 0.3863428529169396`, 0.38637784615580645`,
0.38641283622571343`, 0.38644782312752135`, 0.3864828068620906`,
0.38651778743028115`, 0.3865527648329527`, 0.38658773907096433`,
0.38662271014517496`, 0.38665767805644313`, 0.38669264280562676`,
0.3867276043935835`, 0.38676256282117066`, 0.3867975180892453`,
0.3868324701986636`, 0.38686741915028205`, 0.3869023649449561`,
0.3869373075835413`, 0.38697224706689237`, 0.3870071833958641`,
0.38704211657131066`, 0.38707704659408576`, 0.3871119734650428`,
0.3871468971850349`, 0.3871818177549147`, 0.3872167351755345`,
0.38725164944774604`, 0.387286560572401`, 0.3873214685503503`,
0.38735637338244483`, 0.38739127506953486`, 0.3874261736124704`,
0.38746106901210087`, 0.3874959612692757`, 0.38753085038484353`,
0.38756573635965297`, 0.38760061919455185`, 0.387635498890388`,
0.38767037544800864`, 0.38770524886826074`, 0.3877401191519908`,
0.3877749863000449`, 0.38780985031326887`, 0.38784471119250813`,
0.38787956893860753`, 0.3879144235524119`, 0.38794927503476534`,
0.3879841233865118`, 0.3880189686084947`, 0.3880538107015572`,
0.3880886496665421`, 0.38812348550429154`, 0.38815831821564767`,
0.3881931478014521`, 0.3882279742625459`, 0.38826279759977006`,
```

0.388297617813965`, 0.38833243490597075`, 0.3883672488766271`,
0.38840205972677333`, 0.3884368674572485`, 0.388471672068891`,
0.38850647356253926`, 0.38854127193903093`, 0.3885760671992036`,
0.3886108593438943`, 0.3886456483739398`, 0.38868043429017624`,
0.38871521709343976`, 0.3887499967845659`, 0.38878477336438994`,
0.38881954683374653`, 0.3888543171934703`, 0.3888890844443953`,
0.38892384858735524`, 0.3889586096231834`, 0.3889933675527129`,
0.38902812237677625`, 0.38906287409620566`, 0.38909762271183307`,
0.38913236822448993`, 0.3891671106350073`, 0.38920184994421597`,
0.3892365861529463`, 0.38927131926202835`, 0.3893060492722917`,
0.3893407761845656`, 0.38937549999967896`, 0.3894102207184603`,
0.3894449383417379`, 0.38947965287033937`, 0.3895143643050921`,
0.3895490726468233`, 0.38958377789635956`, 0.3896184800545272`,
0.3896531791221522`, 0.3896878751000601`, 0.38972256798907606`,
0.389757257790025`, 0.38979194450373134`, 0.3898266281310193`,
0.3898613086727125`, 0.38989598612963433`, 0.38993066050260783`,
0.3899653317924557`, 0.39`, 0.3900346651260629`, 0.3900693271714658`,
0.3901039861370299`, 0.390138642023576`, 0.39017329483192464`,
0.39020794456289587`, 0.39024259121730936`, 0.39027723479598453`,
0.39031187529974026`, 0.39034651272939536`, 0.390381147085768`,
0.39041577836967606`, 0.3904504065819371`, 0.39048503172336835`,
0.39051965379478665`, 0.39055427279700833`, 0.3905888887308496`,
0.39062350159712617`, 0.39065811139665335`, 0.3906927181302462`,
0.3907273217987194`, 0.3907619224028872`, 0.39079651994356346`,
0.3908311144215619`, 0.3908657058376956`, 0.3909002941927775`,
0.39093487948762007`, 0.39096946172303537`, 0.3910040408998352`,
0.391038617018831`, 0.39107319008083385`, 0.3911077600866544`,
0.39114232703710294`, 0.3911768909329895`, 0.3912114517751238`,
0.39124600956431493`, 0.3912805643013719`, 0.39131511598710317`,
0.3913496646223171`, 0.39138421020782127`, 0.39141875274442334`,
0.3914532922329304`, 0.3914878286741492`, 0.3915223620688862`,
0.39155689241794733`, 0.3915914197221385`, 0.39162594398226486`,
0.39166046519913145`, 0.39169498337354286`, 0.39172949850630345`,
0.3917640105982172`, 0.3917985196500875`, 0.39183302566627177`,
0.39186752863691066`, 0.3919020285734689`, 0.39193652547319446`,
0.39197101933688927`, 0.39200551016535473`, 0.3920399979593919`,
0.3920744827198016`, 0.3921089644473842`, 0.39214344314293975`,
0.3921779188072679`, 0.39221239144116804`, 0.3922468610454391`,
0.39228132762087975`, 0.39231579116828835`, 0.3923502516884627`,
0.3923847091822004`, 0.39241916365029883`, 0.39245361509355475`,
0.39248806351276466`, 0.3925225089087249`, 0.39255695128223117`,
0.392591390634079`, 0.39262582696506354`, 0.39266026027597956`,
0.3926946905676215`, 0.3927291178407835`, 0.39276354209625924`,
0.3927979633348422`, 0.3928323815573253`, 0.3928667967645013`,

```
0.3929012089571627`, 0.3929356181361013`, 0.39297002430210887`,
0.39300442745597663`, 0.3930388275984957`, 0.3930732247304566`,
0.39310761885264955`, 0.3931420099658647`, 0.39317639807089133`,
0.39321078316851893`, 0.3932451652595363`, 0.39327954434473195`,
0.3933139204248942`, 0.39334829350081085`, 0.39338266357326934`,
0.39341703064305694`, 0.39345139471096047`, 0.39348575577776634`,
0.39352011384426083`, 0.39355446891122964`, 0.3935888209794582`,
0.39362317004973l7`, 0.39365751612283495`, 0.3936918591995522`,
0.39372619928066765`, 0.39376053636696506`, 0.39379487045922784`,
0.393829201558239`, 0.3938635296647812`, 0.393897854779637`,
0.39393217690358834`, 0.39396649603741685`, 0.3940008121819041`,
0.39403512533783075`, 0.39406943550597784`, 0.39410374268712545`,
0.3941380468820537`, 0.39417234809154233`, 0.3942066463163705`,
0.3942409415573172`, 0.39427523381516116`, 0.3943095230906806`,
0.39434380938465363`, 0.3943780926978577`, 0.39441237303107013`,
0.39444665038506793`, 0.3944809247606277`, 0.3945151961585257`,
0.3945494645795379`, 0.3945837300244398`, 0.3946179924940068`,
0.3946522519890137`, 0.39468650851023523`, 0.3947207620584456`,
0.39475501263441864`, 0.39478926023892796`, 0.3948235048727469`,
0.3948577465366483`, 0.39489198523140473`, 0.3949262209577885`,
0.39496045371657146`, 0.39499468350852524`, 0.395028910334421`,
0.39506313419502964`, 0.3950973550911218`, 0.39513157302346774`,
0.39516578799283725`, 0.3952`, 0.3952342090457252`, 0.39526841513078176`,
0.3953026182559382`, 0.39533681842196283`, 0.3953710156296235`,
0.39540520987968786`, 0.3954394011729231`, 0.3954735895100961`,
0.39550777489197353`, 0.39554195731932157`, 0.39557613679290615`,
0.3956103133134929`, 0.39564448688184695`, 0.39567865749873343`,
0.39571282516491674`, 0.39574698988116136`, 0.39578115164823097`,
0.3958153104668894`, 0.39584946633789975`, 0.3958836192620251`,
0.395917769240028`, 0.3959519162726707`, 0.3959860603607152`,
0.39602020150492323`, 0.39605433970605597`, 0.39608847496487454`,
0.3961226072821393`, 0.39615673665861095`, 0.3961908630950492`,
0.3962249865922138`, 0.39625910715086415`, 0.39629322477175916`,
0.39632733945565757`, 0.3963614512033177`, 0.3963955600154977`,
0.3964296658929551`, 0.3964637688364474`, 0.3964978688467316`,
0.3965319659245645`, 0.3965660600707025`, 0.3966001512859016`,
0.39663423957091754`, 0.39666832492650583`, 0.39670240735342155`,
0.39673648685241947`, 0.3967705634242541`, 0.39680463706967944`,
0.3968387077894494`, 0.39687277558431744`, 0.39690684045503677`,
0.39694090240236013`, 0.39697496142704014`, 0.3970090175298289`,
0.3970430707114784`, 0.39707712097274`, 0.39711116831436516`,
0.3971452127371045`, 0.39717925424170886`, 0.39721329282892837`,
0.39724732849951305`, 0.39728136125421243`, 0.3973153910937758`,
0.39734941801895224`, 0.39738344203049025`, 0.3974174631291383`,
```

```
  0.3974514813156444`, 0.39748549659075616`, 0.397519508955221`,
  0.397553518409786`, 0.3975875249551978`, 0.39762152859220284`,
  0.39765552932154735`, 0.397689527143977`, 0.3977235220602372`,
  0.3977575140710732`, 0.3977915031772298`, 0.3978254893794514`,
  0.3978594726784823`, 0.39789345307506635`, 0.39792743056994706`,
  0.39796140516386763`, 0.3979953768575711`, 0.39802934565179987`,
  0.39806331154729646`, 0.3980972745448027`, 0.3981312346450603`,
  0.39816519184881044`, 0.3981991461567943`, 0.3982330975697525`,
  0.39826704608842545`, 0.39830099171355327`, 0.39833493444587564`,
  0.39836887428613194`, 0.39840281123506144`, 0.3984367452934029`,
  0.3984706764618948`, 0.3985046047412753`, 0.39853853013228224`,
  0.3985724526356532`, 0.3986063722521255`, 0.3986402889824359`,
  0.3986742028273212`, 0.39870811378751747`, 0.39874202186376095`,
  0.3987759270567871`, 0.3988098293673314`, 0.39884372879612895`,
  0.39887762534391424`, 0.3989115190114219`, 0.398945409799386`,
  0.3989792977085403`, 0.3990131827396183`, 0.3990470648933531`,
  0.3990809441704778`, 0.3991148205717247`, 0.39914869409782616`,
  0.3991825647495141`, 0.3992164325275201`, 0.39925029743257556`,
  0.3992841594654113`, 0.3993180186267582`, 0.3993518749173466`,
  0.3993857283379064`, 0.3994195788891677`, 0.39945342657185956`,
  0.39948727138671136`, 0.39952111333445195`, 0.3995549524158098`,
  0.39958878863151304`, 0.3996226219822897`, 0.39965645246886733`,
  0.3996902800919732`, 0.3997241048523344`, 0.39975792675067745`,
  0.39979174578772886`, 0.3998255619642146`, 0.39985937528086046`,
  0.3998931857383919`, 0.39992699333753406`, 0.39996079807901175`,
  0.3999945999635495`, 0.4000283989918716`, 0.4000621951647019`,
  0.400095988482764`, 0.4001297789467812`, 0.4001635665574766`,
  0.4001973513155728`, 0.4002311332217922`, 0.400264912276857`,
  0.4002986884814888`, 0.4003324618364092`, 0.4003662323423393`,
  0.40040000000000003`, 0.4004337648101119`, 0.4004675267733952`}
```

In[•]:=
```
ListPlot[Pmplus]
```

```
(* the value is an upper bound, assuming risk neutral for high wealth.
```

(* step four: code for the community:

In[•]:=
```
wupper0 = Ra[what]; wupper = Ra[Ra[what]]; grid = 1 / 2000;
wealth = Table[w, {w, 0, wupper + grid, grid}];
stationc = Flatten[ParallelTable[
    c /. Solve[R[wealth[[i]] - c] == wealth[[i]], c], {i, 1, Length[wealth]}]];
Pmplus = Pmplus[[1 ;; Length[wealth]]];
```

In[•]:=
```
Ps0 = ParallelTable[N[Max[V[cbar], Pmplus[[i]]]], {i, 1, Length[Pmplus]}];
Ps = ParallelTable[N[Max[V[cbar], Pmplus[[i]]]], {i, 1, Length[Pmplus]}];
```

```
In[•]:= Timing[
 Psplus = Flatten[{ParallelTable[N[Max[Table[{1 - dl, dl}.{V[wealth[[i]] + b] - b /.
              If[wealth[[i]] < cbar, b → Min[cbar - wealth[[i]], dl / (1 - dl)
                  ({qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                              grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) /
                          (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[
                                      i]]]] / grid] + 2]] - wealth[[IntegerPart[
                                N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                         (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                                N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                          (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                                grid] + 2]] - wealth[[IntegerPart[N[Ra[wealth[[j]] -
                                   wealth[[i]]]] / grid] + 1]])}.{Ps[[IntegerPart[
                             N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]], Ps[[
                           IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
                        {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                                grid] + 2]] - N[Rb[wealth[[j]] - wealth[[i]]]]) /
                          (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[
                                      i]]]] / grid] + 2]] - wealth[[IntegerPart[
                                N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                         (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                                N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                          (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                                grid] + 2]] - wealth[[IntegerPart[
                                N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                       {Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                            grid] + 1]], Ps[[IntegerPart[
                          N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}} - {qa, qb}.
                      {{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                                grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) /
                          (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[
                                      i]]]] / grid] + 2]] - wealth[[IntegerPart[
                                N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                         (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                                N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                          (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                                grid] + 2]] - wealth[[IntegerPart[
                                N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                       {Pmplus[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                            grid] + 1]], Pmplus[[IntegerPart[
                          N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
                        {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
```

```
                                grid] + 2]] - N[Rb[wealth[[j]] - wealth[[i]]]]) /
                            (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[
                                    i]]]] / grid] + 2]] - wealth[[IntegerPart[
                                N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                           (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                                N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                            (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                                    grid] + 2]] - wealth[[IntegerPart[
                                N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                        {Pmplus[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                             grid] + 1]], Pmplus[[IntegerPart[
                            N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]})], b → 0 ],
                  {qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                              grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) /
                         (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                                grid] + 2]] - wealth[[IntegerPart[
                             N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                        (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                             N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                         (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                                grid] + 2]] - wealth[[IntegerPart[
                             N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                       {Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
                        Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
                      {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                           N[Rb[wealth[[j]] - wealth[[i]]]]) /
                         (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                           wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
                              1]]), (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[
                            IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                         (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                                grid] + 2]] - wealth[[IntegerPart[
                             N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                       {Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
                        Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}}},
                 {i, 1, j}]]], {j, 1, wupper0 / grid}], Pmplus[[Length[
                Table[
                 j,
                 {j, 1,
                  wupper0 / grid}]] + 1 ;; Length[wealth]]]}];]
```

Out[•]= {79.8194, Null}

```
In[•]:= Timing[
 n = 1;
 While[n < 40,
  Ps = ParallelTable[Max[Psplus[[i]], Pmplus[[i]]], {i, 1, Length[Pmplus]}];
  Psplus = Flatten[{ParallelTable[
      N[Max[Table[{1 - dl, dl}.{V[wealth[[i]] + b] - b /. If[wealth[[i]] < cbar,
            b → Min[cbar - wealth[[i]], dl / (1 - dl) ({qa, qb}.{{(wealth[[
                        IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] +
                         2]] - N[Ra[wealth[[j]] - wealth[[i]]]) /
                     (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                           grid] + 2]] - wealth[[IntegerPart[
                         N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                    (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                         N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                     (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                           grid] + 2]] - wealth[[IntegerPart[N[Ra[wealth[[j]] -
                              wealth[[i]]]] / grid] + 1]])}.{Ps[[IntegerPart[
                       N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]], Ps[[
                     IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
                  {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                           grid] + 2]] - N[Rb[wealth[[j]] - wealth[[i]]]]) /
                     (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[
                              i]]]] / grid] + 2]] - wealth[[IntegerPart[
                         N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                    (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                         N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                     (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                           grid] + 2]] - wealth[[IntegerPart[
                         N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                   {Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                        grid] + 1]], Ps[[IntegerPart[
                      N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}} - {qa, qb}.
                {{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                           grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) /
                     (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[
                              i]]]] / grid] + 2]] - wealth[[IntegerPart[
                         N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                    (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                         N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                     (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                           grid] + 2]] - wealth[[IntegerPart[
                         N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
```

```
                {Pmplus[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                      grid] + 1]], Pmplus[[IntegerPart[
                    N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
               {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                         grid] + 2]] - N[Rb[wealth[[j]] - wealth[[i]]]]) /
                  (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[
                            i]]]] / grid] + 2]] - wealth[[IntegerPart[
                        N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
                 (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                        N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                  (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                         grid] + 2]] - wealth[[IntegerPart[
                        N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
               {Pmplus[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                      grid] + 1]], Pmplus[[IntegerPart[
                    N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}})], b → 0 ],
  {qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) /
           (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                  grid] + 2]] - wealth[[IntegerPart[
                N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
          (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
                N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
           (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                  grid] + 2]] - wealth[[IntegerPart[
                N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
         {Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
          Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
        {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            N[Rb[wealth[[j]] - wealth[[i]]]]) /
           (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
             wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
               1]]), (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[
             IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
           (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                  grid] + 2]] - wealth[[IntegerPart[
                N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
         {Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
          Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}}},
 {i, 1, j}]]], {j, 1, wupper0 / grid}], Pmplus[[Length[
Table[
 j,
```

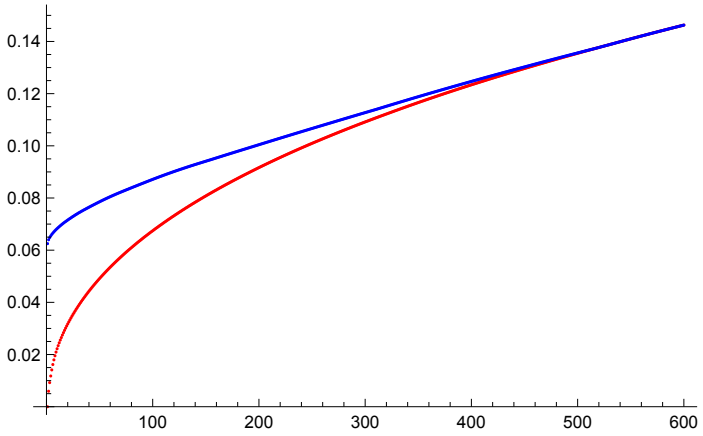
```
            {j,
             1,
             wupper0 / grid}]] + 1 ;; Length[wealth]]]}];
      n++]]
```

Out[•]= {1681.83, Null}

In[•]:=
```
Psplus = Table[Max[Psplus[[i]], Pmplus[[i]]], {i, 1, Length[Pmplus]}];
(* we want to define a point call selection: this is our wstar
```

In[•]:=
```
ListPlot[{Pmplus[[1 ;; 600]], Psplus[[1 ;; 600]]}, PlotStyle → {Red, Blue}]
```

Out[•]=



In[•]:=
```
{Max[Position[Table[Psplus[[i]] > Pmplus[[i]], {i, 1, Length[Pmplus]}], True]],
 Length[Position[Table[Psplus[[i]] > Pmplus[[i]], {i, 1, Length[Pmplus]}], True]]}
wsel = Max[Position[Table[Psplus[[i]] > Pmplus[[i]], {i, 1, Length[Pmplus]}], True]]
{Max[Ps[[1 ;; wsel]] - Psplus[[1 ;; wsel]]], Min[Ps[[1 ;; wsel]] - Psplus[[1 ;; wsel]]]}
```

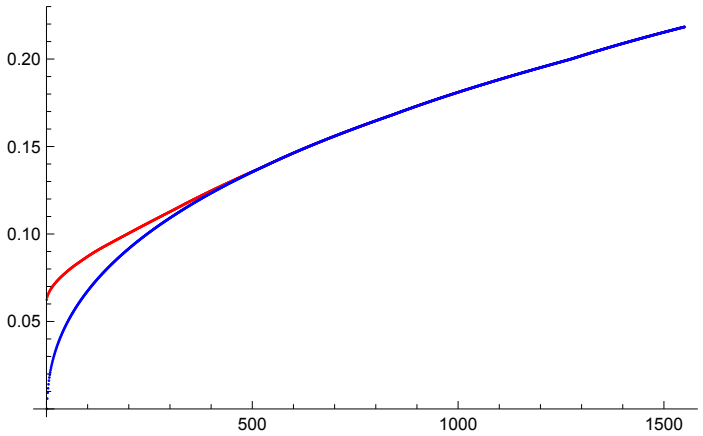
Out[•]= {517, 517}

Out[•]= 517

Out[•]= $\{2.07692 \times 10^{-6}, 3.1466 \times 10^{-7}\}$

In[•]:=
```
ListPlot[{Psplus, Pmplus}, PlotStyle → {Red, Blue}]
```

Out[•]=



In[•]:= **Pmplus**

Out[•]= {0., 0.00593028, 0.00923446, 0.011774, 0.0140995, 0.0161701, 0.0179558, 0.0195202,
0.0209332, 0.0222177, 0.0234008, 0.0244965, 0.0255307, 0.0265008, 0.0274641,
0.0283843, 0.0292639, 0.0301156, 0.0309367, 0.0317266, 0.0324934, 0.0332359,
0.033975, 0.0346913, 0.035387, 0.0360637, 0.0367219, 0.0373678, 0.0380005,
0.0386236, 0.0392386, 0.0398406, 0.0404296, 0.0410047, 0.0415687, 0.0421234,
0.0426723, 0.0432164, 0.0437518, 0.0442783, 0.0447947, 0.0453027, 0.0458016,
0.0462979, 0.0467874, 0.0472702, 0.0477472, 0.0482177, 0.0486823, 0.0491398,
0.0495962, 0.0500465, 0.0504914, 0.0509293, 0.0513609, 0.0517894, 0.0522142,
0.0526364, 0.0530535, 0.0534659, 0.0538739, 0.0542775, 0.0546765, 0.0550753,
0.0554691, 0.0558607, 0.0562471, 0.0566292, 0.057007, 0.0573844, 0.0577577,
0.0581276, 0.0584939, 0.058857, 0.0592177, 0.0595766, 0.0599331, 0.0602861,
0.0606356, 0.0609818, 0.0613251, 0.0616681, 0.0620086, 0.062347, 0.0626823,
0.0630149, 0.0633445, 0.0636734, 0.0639998, 0.0643233, 0.0646448, 0.0649636,
0.0652802, 0.0655967, 0.0659106, 0.0662221, 0.0665311, 0.0668379, 0.0671433,
0.0674482, 0.0677508, 0.0680513, 0.0683494, 0.0686452, 0.0689406, 0.069234,
0.0695255, 0.0698163, 0.0701054, 0.0703924, 0.0706786, 0.070964, 0.071247,
0.0715281, 0.0718074, 0.0720853, 0.0723633, 0.0726393, 0.0729131, 0.0731854,
0.0734558, 0.0737261, 0.0739949, 0.0742622, 0.0745283, 0.0747925, 0.0750559,
0.0753184, 0.0755792, 0.0758384, 0.0760963, 0.0763531, 0.0766097, 0.0768652,
0.0771188, 0.0773712, 0.077622, 0.0778726, 0.0781217, 0.0783698, 0.0786164,
0.0788618, 0.0791069, 0.079351, 0.0795942, 0.0798358, 0.0800763, 0.0803161,
0.0805554, 0.0807937, 0.0810306, 0.0812663, 0.0815012, 0.0817358, 0.0819691,
0.0822014, 0.082433, 0.0826633, 0.0828936, 0.0831224, 0.0833502, 0.0835767,
0.0838026, 0.0840283, 0.084253, 0.0844769, 0.0846997, 0.0849215, 0.0851432,
0.0853638, 0.0855834, 0.0858023, 0.0860201, 0.0862379, 0.0864546, 0.0866703,
0.086885, 0.0870991, 0.0873127, 0.0875259, 0.0877381, 0.0879494, 0.0881599,
0.0883701, 0.0885794, 0.0887876, 0.0889953, 0.0892025, 0.0894094, 0.0896165,
0.089823, 0.0900285, 0.0902332, 0.0904372, 0.0906412, 0.0908444, 0.0910467,
0.0912481, 0.091449, 0.0916494, 0.0918493, 0.0920482, 0.0922466, 0.0924446,
0.0926421, 0.0928387, 0.0930344, 0.0932296, 0.0934247, 0.0936191, 0.0938128,
0.0940056, 0.0941981, 0.0943903, 0.0945817, 0.0947723, 0.0949624, 0.0951523,
0.0953416, 0.0955302, 0.0957179, 0.0959053, 0.0960924, 0.0962788, 0.0964648,
0.09665, 0.096835, 0.0970197, 0.0972035, 0.0973868, 0.0975695, 0.097752,
0.0979342, 0.0981155, 0.0982961, 0.0984766, 0.0986566, 0.098836, 0.0990148,
0.0991932, 0.0993715, 0.0995492, 0.0997261, 0.0999024, 0.100079, 0.100254,
0.10043, 0.100604, 0.100779, 0.100953, 0.101127, 0.101299, 0.101472, 0.101644,
0.101816, 0.101987, 0.102158, 0.102329, 0.102499, 0.102668, 0.102837, 0.103006,
0.103175, 0.103343, 0.103511, 0.103679, 0.103846, 0.104013, 0.104179, 0.104345,
0.10451, 0.104675, 0.10484, 0.105005, 0.105169, 0.105332, 0.105496, 0.105659,
0.105821, 0.105983, 0.106145, 0.106307, 0.106468, 0.106628, 0.106789, 0.106949,
0.107109, 0.107269, 0.107428, 0.107587, 0.107745, 0.107903, 0.108061, 0.108219,
0.108376, 0.108533, 0.108689, 0.108845, 0.109001, 0.109156, 0.109312, 0.109466,

0.109621, 0.109775, 0.109929, 0.110082, 0.110235, 0.110388, 0.110541, 0.110693,
0.110845, 0.110997, 0.111148, 0.111299, 0.111449, 0.1116, 0.11175, 0.1119,
0.112049, 0.112198, 0.112347, 0.112496, 0.112645, 0.112795, 0.112945, 0.113094,
0.113243, 0.113392, 0.11354, 0.113688, 0.113836, 0.113983, 0.114131, 0.114278,
0.114424, 0.11457, 0.114716, 0.114862, 0.115007, 0.115152, 0.115297, 0.115442,
0.115586, 0.11573, 0.115874, 0.116017, 0.11616, 0.116303, 0.116446, 0.116588,
0.11673, 0.116872, 0.117013, 0.117154, 0.117295, 0.117436, 0.117577, 0.117717,
0.117857, 0.117996, 0.118135, 0.118275, 0.118413, 0.118552, 0.11869, 0.118829,
0.118966, 0.119104, 0.119241, 0.119378, 0.119515, 0.119652, 0.119788, 0.119924,
0.12006, 0.120195, 0.120331, 0.120466, 0.120601, 0.120736, 0.12087, 0.121005,
0.121139, 0.121272, 0.121406, 0.121539, 0.121672, 0.121805, 0.121938, 0.12207,
0.122202, 0.122335, 0.122466, 0.122598, 0.122729, 0.12286, 0.122991, 0.123122,
0.123252, 0.123382, 0.123512, 0.123642, 0.123772, 0.123901, 0.12403, 0.124159,
0.124288, 0.124416, 0.124545, 0.124673, 0.124801, 0.124928, 0.125056, 0.125183,
0.12531, 0.125437, 0.125564, 0.12569, 0.125817, 0.125943, 0.126069, 0.126194,
0.12632, 0.126445, 0.12657, 0.126695, 0.12682, 0.126945, 0.127069, 0.127193,
0.127317, 0.127441, 0.127564, 0.127688, 0.127811, 0.127934, 0.128057, 0.12818,
0.128302, 0.128424, 0.128547, 0.128669, 0.12879, 0.128912, 0.129033, 0.129155,
0.129276, 0.129397, 0.129517, 0.129638, 0.129758, 0.129879, 0.129999, 0.130118,
0.130238, 0.130358, 0.130477, 0.130596, 0.130715, 0.130834, 0.130953, 0.131071,
0.13119, 0.131308, 0.131426, 0.131544, 0.131662, 0.131779, 0.131897, 0.132014,
0.132131, 0.132248, 0.132365, 0.132482, 0.132599, 0.132716, 0.132832, 0.132949,
0.133065, 0.133181, 0.133297, 0.133413, 0.133529, 0.133644, 0.133759, 0.133875,
0.133989, 0.134104, 0.134219, 0.134334, 0.134448, 0.134562, 0.134676, 0.13479,
0.134904, 0.135018, 0.135131, 0.135244, 0.135358, 0.135471, 0.135584, 0.135696,
0.135809, 0.135921, 0.136034, 0.136146, 0.136258, 0.13637, 0.136481, 0.136593,
0.136704, 0.136816, 0.136927, 0.137038, 0.137149, 0.13726, 0.13737, 0.137481,
0.137591, 0.137701, 0.137811, 0.137921, 0.138031, 0.138141, 0.13825, 0.13836,
0.138469, 0.138578, 0.138687, 0.138796, 0.138905, 0.139014, 0.139126, 0.139237,
0.139349, 0.13946, 0.139571, 0.139682, 0.139793, 0.139903, 0.140014, 0.140124,
0.140234, 0.140344, 0.140454, 0.140564, 0.140673, 0.140783, 0.140892, 0.141001,
0.14111, 0.141219, 0.141328, 0.141436, 0.141544, 0.141653, 0.141761, 0.141869,
0.141976, 0.142084, 0.142192, 0.142299, 0.142406, 0.142513, 0.14262, 0.142727,
0.142834, 0.14294, 0.143047, 0.143153, 0.143259, 0.143365, 0.143471, 0.143577,
0.143682, 0.143788, 0.143893, 0.143998, 0.144103, 0.144208, 0.144313, 0.144418,
0.144522, 0.144627, 0.144731, 0.144835, 0.144939, 0.145043, 0.145147, 0.14525,
0.145354, 0.145457, 0.14556, 0.145663, 0.145766, 0.145869, 0.145972, 0.146075,
0.146177, 0.146279, 0.146382, 0.146484, 0.146586, 0.146687, 0.146789, 0.146891,
0.146992, 0.147094, 0.147195, 0.147296, 0.147397, 0.147498, 0.147599, 0.147699,
0.1478, 0.1479, 0.148001, 0.148101, 0.148201, 0.148301, 0.148401, 0.148501,
0.1486, 0.1487, 0.148799, 0.148898, 0.148997, 0.149097, 0.149195, 0.149294,
0.149393, 0.149492, 0.14959, 0.149688, 0.149787, 0.149885, 0.149983, 0.150081,
0.150179, 0.150276, 0.150374, 0.150471, 0.150569, 0.150666, 0.150763, 0.15086,
0.150957, 0.151054, 0.151151, 0.151248, 0.151344, 0.151441, 0.151537, 0.151633,

0.151729, 0.151825, 0.151921, 0.152017, 0.152113, 0.152208, 0.152304, 0.152399,
0.152494, 0.15259, 0.152685, 0.15278, 0.152874, 0.152969, 0.153064, 0.153159,
0.153253, 0.153347, 0.153442, 0.153536, 0.15363, 0.153724, 0.153818, 0.153912,
0.154005, 0.154099, 0.154192, 0.154286, 0.154379, 0.154472, 0.154566, 0.154659,
0.154751, 0.154844, 0.154937, 0.15503, 0.155122, 0.155215, 0.155307, 0.155399,
0.155492, 0.155584, 0.155676, 0.155768, 0.155859, 0.155951, 0.156043, 0.156134,
0.156226, 0.156317, 0.156409, 0.1565, 0.156591, 0.156682, 0.156773, 0.156864,
0.156955, 0.157046, 0.157136, 0.157227, 0.157317, 0.157408, 0.157498, 0.157588,
0.157679, 0.157769, 0.157859, 0.157949, 0.158038, 0.158128, 0.158218, 0.158307,
0.158397, 0.158486, 0.158576, 0.158665, 0.158754, 0.158843, 0.158933, 0.159022,
0.159111, 0.159199, 0.159288, 0.159377, 0.159466, 0.159554, 0.159643, 0.159731,
0.159819, 0.159908, 0.159996, 0.160084, 0.160172, 0.16026, 0.160348, 0.160435,
0.160523, 0.160611, 0.160698, 0.160786, 0.160873, 0.16096, 0.161048, 0.161135,
0.161222, 0.161309, 0.161396, 0.161483, 0.16157, 0.161656, 0.161743, 0.161829,
0.161916, 0.162002, 0.162089, 0.162175, 0.162261, 0.162347, 0.162433, 0.162519,
0.162605, 0.162691, 0.162777, 0.162862, 0.162948, 0.163034, 0.163119, 0.163204,
0.16329, 0.163375, 0.16346, 0.163545, 0.16363, 0.163715, 0.1638, 0.163885,
0.16397, 0.164054, 0.164139, 0.164224, 0.164308, 0.164393, 0.164477, 0.164561,
0.164645, 0.16473, 0.164814, 0.164898, 0.164982, 0.165065, 0.165149, 0.165233,
0.165317, 0.1654, 0.165484, 0.165568, 0.165651, 0.165734, 0.165818, 0.165901,
0.165984, 0.166067, 0.16615, 0.166233, 0.166316, 0.166399, 0.166482, 0.166565,
0.166647, 0.16673, 0.166813, 0.166895, 0.166978, 0.16706, 0.167142, 0.167225,
0.167307, 0.167389, 0.167471, 0.167553, 0.167636, 0.167719, 0.167801, 0.167884,
0.167966, 0.168048, 0.168133, 0.168221, 0.168308, 0.168395, 0.168483, 0.16857,
0.168657, 0.168744, 0.168831, 0.168917, 0.169004, 0.169091, 0.169177, 0.169263,
0.16935, 0.169436, 0.169522, 0.169608, 0.169694, 0.16978, 0.169865, 0.169951,
0.170037, 0.170122, 0.170207, 0.170293, 0.170378, 0.170463, 0.170548, 0.170633,
0.170718, 0.170803, 0.170887, 0.170972, 0.171056, 0.171141, 0.171225, 0.171309,
0.171394, 0.171478, 0.171562, 0.171645, 0.171729, 0.171813, 0.171897, 0.17198,
0.172064, 0.172147, 0.172231, 0.172314, 0.172397, 0.17248, 0.172563, 0.172646,
0.172729, 0.172811, 0.172894, 0.172977, 0.173059, 0.173142, 0.173224, 0.173306,
0.173389, 0.173471, 0.173553, 0.173635, 0.173717, 0.173798, 0.17388, 0.173962,
0.174043, 0.174125, 0.174206, 0.174288, 0.174369, 0.17445, 0.174531, 0.174612,
0.174693, 0.174774, 0.174855, 0.174936, 0.175016, 0.175097, 0.175177, 0.175258,
0.175338, 0.175419, 0.175499, 0.175579, 0.175659, 0.175739, 0.175819, 0.175899,
0.175979, 0.176058, 0.176138, 0.176217, 0.176297, 0.176376, 0.176456, 0.176535,
0.176614, 0.176693, 0.176772, 0.176851, 0.17693, 0.177009, 0.177088, 0.177167,
0.177245, 0.177324, 0.177402, 0.177481, 0.177559, 0.177638, 0.177716, 0.177794,
0.177872, 0.17795, 0.178028, 0.178106, 0.178184, 0.178262, 0.178339, 0.178417,
0.178494, 0.178572, 0.178649, 0.178727, 0.178804, 0.178881, 0.178958, 0.179036,
0.179113, 0.17919, 0.179266, 0.179343, 0.17942, 0.179497, 0.179573, 0.17965,
0.179727, 0.179803, 0.179879, 0.179956, 0.180032, 0.180108, 0.180184, 0.18026,
0.180337, 0.180412, 0.180488, 0.180564, 0.18064, 0.180716, 0.180791, 0.180867,
0.180942, 0.181018, 0.181093, 0.181169, 0.181244, 0.181319, 0.181394, 0.181469,

0.181544, 0.181619, 0.181694, 0.181769, 0.181844, 0.181919, 0.181993, 0.182068,
0.182142, 0.182217, 0.182291, 0.182366, 0.18244, 0.182514, 0.182589, 0.182663,
0.182737, 0.182811, 0.182885, 0.182959, 0.183033, 0.183106, 0.18318, 0.183254,
0.183327, 0.183401, 0.183474, 0.183548, 0.183621, 0.183695, 0.183768, 0.183841,
0.183914, 0.183987, 0.18406, 0.184133, 0.184206, 0.184279, 0.184352, 0.184425,
0.184498, 0.18457, 0.184643, 0.184715, 0.184788, 0.18486, 0.184933, 0.185005,
0.185077, 0.18515, 0.185222, 0.185294, 0.185366, 0.185438, 0.18551, 0.185582,
0.185654, 0.185726, 0.185798, 0.18587, 0.185941, 0.186013, 0.186085, 0.186156,
0.186228, 0.186299, 0.186371, 0.186442, 0.186514, 0.186585, 0.186656, 0.186728,
0.186799, 0.18687, 0.186941, 0.187012, 0.187083, 0.187154, 0.187225, 0.187296,
0.187367, 0.187438, 0.187509, 0.187579, 0.18765, 0.187721, 0.187791, 0.187862,
0.187932, 0.188003, 0.188073, 0.188144, 0.188214, 0.188284, 0.188355, 0.188425,
0.188495, 0.188565, 0.188635, 0.188705, 0.188775, 0.188845, 0.188915, 0.188985,
0.189055, 0.189125, 0.189194, 0.189264, 0.189334, 0.189403, 0.189473, 0.189542,
0.189612, 0.189681, 0.189751, 0.18982, 0.189889, 0.189959, 0.190028, 0.190097,
0.190166, 0.190236, 0.190305, 0.190374, 0.190443, 0.190512, 0.190581, 0.19065,
0.190718, 0.190787, 0.190856, 0.190925, 0.190993, 0.191062, 0.191131, 0.191199,
0.191268, 0.191336, 0.191405, 0.191473, 0.191541, 0.19161, 0.191678, 0.191746,
0.191815, 0.191883, 0.191951, 0.192019, 0.192087, 0.192155, 0.192223, 0.192291,
0.192359, 0.192427, 0.192495, 0.192562, 0.19263, 0.192698, 0.192766, 0.192833,
0.192901, 0.192968, 0.193036, 0.193103, 0.193171, 0.193238, 0.193306, 0.193373,
0.19344, 0.193508, 0.193575, 0.193642, 0.193709, 0.193776, 0.193843, 0.19391,
0.193977, 0.194044, 0.194111, 0.194178, 0.194245, 0.194312, 0.194379, 0.194446,
0.194512, 0.194579, 0.194646, 0.194712, 0.194779, 0.194846, 0.194912, 0.194979,
0.195045, 0.195112, 0.195178, 0.195245, 0.195311, 0.195378, 0.195444, 0.19551,
0.195576, 0.195643, 0.195709, 0.195775, 0.195841, 0.195907, 0.195973, 0.19604,
0.196106, 0.196172, 0.196238, 0.196304, 0.196369, 0.196435, 0.196501, 0.196567,
0.196633, 0.196699, 0.196764, 0.19683, 0.196896, 0.196961, 0.197027, 0.197093,
0.197158, 0.197224, 0.197289, 0.197355, 0.19742, 0.197486, 0.197551, 0.197616,
0.197682, 0.197747, 0.197812, 0.197877, 0.197943, 0.198008, 0.198073, 0.198138,
0.198203, 0.198268, 0.198333, 0.198398, 0.198463, 0.198528, 0.198593, 0.198658,
0.198723, 0.198788, 0.198853, 0.198917, 0.198982, 0.199047, 0.199112, 0.199176,
0.199241, 0.199305, 0.19937, 0.199435, 0.199499, 0.199564, 0.199628, 0.199693,
0.199757, 0.199821, 0.199886, 0.199956, 0.200031, 0.200106, 0.20018, 0.200255,
0.200329, 0.200404, 0.200478, 0.200552, 0.200626, 0.2007, 0.200774, 0.200848,
0.200923, 0.200997, 0.201071, 0.201146, 0.20122, 0.201294, 0.201368, 0.201442,
0.201516, 0.20159, 0.201664, 0.201737, 0.201811, 0.201884, 0.201958, 0.202031,
0.202104, 0.202178, 0.202251, 0.202324, 0.202397, 0.20247, 0.202542, 0.202615,
0.202688, 0.20276, 0.202833, 0.202905, 0.202978, 0.20305, 0.203122, 0.203195,
0.203267, 0.203339, 0.203411, 0.203483, 0.203554, 0.203626, 0.203698, 0.203769,
0.203841, 0.203912, 0.203984, 0.204055, 0.204126, 0.204197, 0.204269, 0.20434,
0.204411, 0.204481, 0.204552, 0.204623, 0.204694, 0.204764, 0.204835, 0.204905,
0.204976, 0.205046, 0.205116, 0.205187, 0.205257, 0.205327, 0.205397, 0.205467,
0.205537, 0.205607, 0.205676, 0.205746, 0.205816, 0.205885, 0.205955, 0.206024,

0.206094, 0.206163, 0.206232, 0.206301, 0.206371, 0.20644, 0.206509, 0.206578,
0.206646, 0.206715, 0.206784, 0.206853, 0.206921, 0.20699, 0.207058, 0.207127,
0.207195, 0.207264, 0.207332, 0.2074, 0.207468, 0.207536, 0.207604, 0.207672,
0.20774, 0.207808, 0.207876, 0.207944, 0.208011, 0.208079, 0.208146, 0.208214,
0.208281, 0.208349, 0.208416, 0.208483, 0.208551, 0.208618, 0.208685, 0.208752,
0.208819, 0.208886, 0.208953, 0.209019, 0.209086, 0.209153, 0.20922, 0.209286,
0.209353, 0.209419, 0.209486, 0.209552, 0.209618, 0.209685, 0.209751, 0.209817,
0.209883, 0.209949, 0.210015, 0.210081, 0.210147, 0.210213, 0.210278, 0.210344,
0.21041, 0.210475, 0.210541, 0.210606, 0.210672, 0.210737, 0.210803, 0.210868,
0.210933, 0.210998, 0.211064, 0.211129, 0.211194, 0.211259, 0.211324, 0.211388,
0.211453, 0.211518, 0.211583, 0.211647, 0.211712, 0.211777, 0.211841, 0.211906,
0.21197, 0.212035, 0.212099, 0.212163, 0.212227, 0.212292, 0.212356, 0.21242,
0.212484, 0.212548, 0.212612, 0.212676, 0.212739, 0.212803, 0.212867, 0.212931,
0.212994, 0.213058, 0.213121, 0.213185, 0.213248, 0.213312, 0.213375, 0.213439,
0.213502, 0.213565, 0.213628, 0.213691, 0.213754, 0.213817, 0.21388, 0.213943,
0.214006, 0.214069, 0.214132, 0.214195, 0.214257, 0.21432, 0.214383, 0.214445,
0.214508, 0.21457, 0.214633, 0.214695, 0.214757, 0.21482, 0.214882, 0.214944,
0.215006, 0.215069, 0.215131, 0.215193, 0.215255, 0.215317, 0.215378, 0.21544,
0.215502, 0.215564, 0.215626, 0.215687, 0.215749, 0.215811, 0.215872, 0.215934,
0.215995, 0.216057, 0.216118, 0.216179, 0.216241, 0.216302, 0.216363, 0.216424,
0.216485, 0.216546, 0.216608, 0.216669, 0.21673, 0.21679, 0.216851, 0.216912,
0.216973, 0.217034, 0.217094, 0.217155, 0.217216, 0.217276, 0.217337, 0.217398,
0.217458, 0.217519, 0.217579, 0.21764, 0.2177, 0.217761, 0.217821, 0.217881,
0.217942, 0.218002, 0.218062, 0.218123, 0.218183, 0.218243, 0.218303, 0.218363}

In[•]:= **Psplus**

Out[•]= {0.0625083, 0.0639926, 0.0648196, 0.0654748, 0.0660414, 0.0665511, 0.0670252,
0.0674685, 0.0678824, 0.0682742, 0.0686505, 0.0690153, 0.0693694, 0.0697123,
0.0700435, 0.070363, 0.070671, 0.0709703, 0.0712629, 0.0715498, 0.0718326,
0.0721115, 0.0723876, 0.0726598, 0.0729281, 0.0731926, 0.0734524, 0.0737077,
0.0739586, 0.0742045, 0.0744458, 0.0746831, 0.0749155, 0.0751432, 0.0753679,
0.0755901, 0.0758106, 0.0760296, 0.0762465, 0.0764618, 0.0766758, 0.0768892,
0.0771013, 0.0773124, 0.0775225, 0.0777319, 0.0779406, 0.0781475, 0.0783527,
0.0785563, 0.0787584, 0.0789591, 0.0791581, 0.0793551, 0.07955, 0.0797431,
0.0799344, 0.0801239, 0.0803116, 0.0804973, 0.080681, 0.0808628, 0.081043,
0.0812221, 0.0813995, 0.0815751, 0.0817488, 0.0819205, 0.0820904, 0.0822586,
0.0824261, 0.0825931, 0.0827595, 0.0829252, 0.0830904, 0.0832567, 0.083423,
0.0835885, 0.0837534, 0.0839177, 0.0840816, 0.0842451, 0.0844081, 0.0845707,
0.0847334, 0.0848961, 0.0850584, 0.0852203, 0.085382, 0.0855434, 0.0857046,
0.0858655, 0.0860261, 0.0861864, 0.086347, 0.0865072, 0.0866668, 0.0868257,
0.0869837, 0.0871409, 0.0872973, 0.0874531, 0.0876081, 0.0877624, 0.087916,
0.088069, 0.0882214, 0.088373, 0.0885239, 0.088674, 0.0888232, 0.0889715,
0.0891189, 0.0892657, 0.0894117, 0.0895569, 0.0897013, 0.089845, 0.0899881,
0.0901303, 0.0902719, 0.0904127, 0.0905528, 0.0906921, 0.0908307, 0.0909684,

0.0911053, 0.0912415, 0.0913771, 0.0915126, 0.0916477, 0.0917822, 0.0919161,
0.0920495, 0.0921821, 0.0923141, 0.0924453, 0.0925758, 0.0927054, 0.0928345,
0.0929628, 0.0930904, 0.0932173, 0.0933435, 0.0934691, 0.0935952, 0.0937208,
0.0938467, 0.0939725, 0.0940982, 0.0942239, 0.0943493, 0.0944752, 0.0946004,
0.0947269, 0.0948548, 0.094983, 0.0951118, 0.0952406, 0.095369, 0.0954975,
0.0956256, 0.0957539, 0.0958817, 0.0960095, 0.096137, 0.0962646, 0.0963918,
0.0965192, 0.096646, 0.0967733, 0.0968999, 0.0970269, 0.0971533, 0.09728,
0.0974062, 0.0975325, 0.0976591, 0.0977851, 0.0979116, 0.0980377, 0.0981638,
0.0982901, 0.0984159, 0.0985421, 0.0986679, 0.0987938, 0.0989198, 0.0990453,
0.0991713, 0.099297, 0.0994226, 0.0995483, 0.0996736, 0.0997993, 0.0999253,
0.100051, 0.100177, 0.100303, 0.10043, 0.100555, 0.100682, 0.100807, 0.100933,
0.101059, 0.101185, 0.101311, 0.101436, 0.101561, 0.101687, 0.101812, 0.101938,
0.102063, 0.102188, 0.102314, 0.102439, 0.102564, 0.102689, 0.102814, 0.102939,
0.103064, 0.103188, 0.103313, 0.103438, 0.103562, 0.103687, 0.103811, 0.103935,
0.104059, 0.104183, 0.104307, 0.104431, 0.104555, 0.104679, 0.104803, 0.104926,
0.10505, 0.105174, 0.105297, 0.105421, 0.105544, 0.105667, 0.10579, 0.105913,
0.106037, 0.10616, 0.106282, 0.106405, 0.106528, 0.106651, 0.106773, 0.106896,
0.107018, 0.107141, 0.107263, 0.107385, 0.107508, 0.10763, 0.107752, 0.107874,
0.107995, 0.108117, 0.108239, 0.108361, 0.108482, 0.108604, 0.108726, 0.108848,
0.108971, 0.109093, 0.109215, 0.109338, 0.10946, 0.109582, 0.109704, 0.109826,
0.109948, 0.11007, 0.110192, 0.110314, 0.110435, 0.110557, 0.110678, 0.110799,
0.110921, 0.111042, 0.111163, 0.111284, 0.111405, 0.111525, 0.111646, 0.111767,
0.111887, 0.112007, 0.112128, 0.112248, 0.112368, 0.112488, 0.112608, 0.112728,
0.112848, 0.112968, 0.113087, 0.113207, 0.113326, 0.113446, 0.113565, 0.113684,
0.113803, 0.113923, 0.114047, 0.11417, 0.114294, 0.114418, 0.114541, 0.114666,
0.114791, 0.114915, 0.11504, 0.115164, 0.115289, 0.115413, 0.115537, 0.115661,
0.115784, 0.115908, 0.116031, 0.116155, 0.116278, 0.116401, 0.116524, 0.116647,
0.116769, 0.116892, 0.117014, 0.117136, 0.117258, 0.11738, 0.117502, 0.117623,
0.117745, 0.117866, 0.117987, 0.118108, 0.118229, 0.11835, 0.118471, 0.118591,
0.118712, 0.118832, 0.118952, 0.119072, 0.119192, 0.119312, 0.119431, 0.119551,
0.11967, 0.119789, 0.119908, 0.120027, 0.120146, 0.120265, 0.120383, 0.120502,
0.12062, 0.120738, 0.120856, 0.120974, 0.121092, 0.121209, 0.121327, 0.121444,
0.121561, 0.121678, 0.121795, 0.121912, 0.122029, 0.122146, 0.122262, 0.122379,
0.122495, 0.122611, 0.122728, 0.122844, 0.12296, 0.123076, 0.123191, 0.123307,
0.123423, 0.123538, 0.123654, 0.123769, 0.123884, 0.123999, 0.124114, 0.124228,
0.124343, 0.124457, 0.124572, 0.124686, 0.1248, 0.124914, 0.125028, 0.125142,
0.125255, 0.125369, 0.125482, 0.125595, 0.125708, 0.125821, 0.125934, 0.126047,
0.126159, 0.126272, 0.126384, 0.126497, 0.126609, 0.126721, 0.126833, 0.126944,
0.127056, 0.127168, 0.127279, 0.127391, 0.127502, 0.127613, 0.127724, 0.127835,
0.127945, 0.128056, 0.128167, 0.128277, 0.128387, 0.128498, 0.128608, 0.128718,
0.128827, 0.128937, 0.129047, 0.129156, 0.129266, 0.129375, 0.129484, 0.129593,
0.129703, 0.129811, 0.12992, 0.130029, 0.130137, 0.130246, 0.130354, 0.130463,
0.130573, 0.130682, 0.130791, 0.1309, 0.131009, 0.131118, 0.131228, 0.131337,
0.131446, 0.131555, 0.131663, 0.131772, 0.131881, 0.131989, 0.132097, 0.132206,

0.132314, 0.132422, 0.132529, 0.132637, 0.132745, 0.132852, 0.13296, 0.133067,
0.133174, 0.133281, 0.133388, 0.133495, 0.133602, 0.133708, 0.133814, 0.133921,
0.134027, 0.134133, 0.134239, 0.134345, 0.134451, 0.134557, 0.134662, 0.134768,
0.134873, 0.134979, 0.135084, 0.135189, 0.135294, 0.135399, 0.135503, 0.135608,
0.135713, 0.135817, 0.135921, 0.136026, 0.13613, 0.136234, 0.136338, 0.136442,
0.136545, 0.136649, 0.136752, 0.136856, 0.136959, 0.137062, 0.137165, 0.137269,
0.137371, 0.137481, 0.137591, 0.137701, 0.137811, 0.137921, 0.138031, 0.138141,
0.13825, 0.13836, 0.138469, 0.138578, 0.138687, 0.138796, 0.138905, 0.139014,
0.139126, 0.139237, 0.139349, 0.13946, 0.139571, 0.139682, 0.139793, 0.139903,
0.140014, 0.140124, 0.140234, 0.140344, 0.140454, 0.140564, 0.140673, 0.140783,
0.140892, 0.141001, 0.14111, 0.141219, 0.141328, 0.141436, 0.141544, 0.141653,
0.141761, 0.141869, 0.141976, 0.142084, 0.142192, 0.142299, 0.142406, 0.142513,
0.14262, 0.142727, 0.142834, 0.14294, 0.143047, 0.143153, 0.143259, 0.143365,
0.143471, 0.143577, 0.143682, 0.143788, 0.143893, 0.143998, 0.144103, 0.144208,
0.144313, 0.144418, 0.144522, 0.144627, 0.144731, 0.144835, 0.144939, 0.145043,
0.145147, 0.14525, 0.145354, 0.145457, 0.14556, 0.145663, 0.145766, 0.145869,
0.145972, 0.146075, 0.146177, 0.146279, 0.146382, 0.146484, 0.146586, 0.146687,
0.146789, 0.146891, 0.146992, 0.147094, 0.147195, 0.147296, 0.147397, 0.147498,
0.147599, 0.147699, 0.1478, 0.1479, 0.148001, 0.148101, 0.148201, 0.148301,
0.148401, 0.148501, 0.1486, 0.1487, 0.148799, 0.148898, 0.148997, 0.149097,
0.149195, 0.149294, 0.149393, 0.149492, 0.14959, 0.149688, 0.149787, 0.149885,
0.149983, 0.150081, 0.150179, 0.150276, 0.150374, 0.150471, 0.150569, 0.150666,
0.150763, 0.15086, 0.150957, 0.151054, 0.151151, 0.151248, 0.151344, 0.151441,
0.151537, 0.151633, 0.151729, 0.151825, 0.151921, 0.152017, 0.152113, 0.152208,
0.152304, 0.152399, 0.152494, 0.15259, 0.152685, 0.15278, 0.152874, 0.152969,
0.153064, 0.153159, 0.153253, 0.153347, 0.153442, 0.153536, 0.15363, 0.153724,
0.153818, 0.153912, 0.154005, 0.154099, 0.154192, 0.154286, 0.154379, 0.154472,
0.154566, 0.154659, 0.154751, 0.154844, 0.154937, 0.15503, 0.155122, 0.155215,
0.155307, 0.155399, 0.155492, 0.155584, 0.155676, 0.155768, 0.155859, 0.155951,
0.156043, 0.156134, 0.156226, 0.156317, 0.156409, 0.1565, 0.156591, 0.156682,
0.156773, 0.156864, 0.156955, 0.157046, 0.157136, 0.157227, 0.157317, 0.157408,
0.157498, 0.157588, 0.157679, 0.157769, 0.157859, 0.157949, 0.158038, 0.158128,
0.158218, 0.158307, 0.158397, 0.158486, 0.158576, 0.158665, 0.158754, 0.158843,
0.158933, 0.159022, 0.159111, 0.159199, 0.159288, 0.159377, 0.159466, 0.159554,
0.159643, 0.159731, 0.159819, 0.159908, 0.159996, 0.160084, 0.160172, 0.16026,
0.160348, 0.160435, 0.160523, 0.160611, 0.160698, 0.160786, 0.160873, 0.16096,
0.161048, 0.161135, 0.161222, 0.161309, 0.161396, 0.161483, 0.16157, 0.161656,
0.161743, 0.161829, 0.161916, 0.162002, 0.162089, 0.162175, 0.162261, 0.162347,
0.162433, 0.162519, 0.162605, 0.162691, 0.162777, 0.162862, 0.162948,
0.163034, 0.163119, 0.163204, 0.16329, 0.163375, 0.16346, 0.163545, 0.16363,
0.163715, 0.1638, 0.163885, 0.16397, 0.164054, 0.164139, 0.164224, 0.164308,
0.164393, 0.164477, 0.164561, 0.164645, 0.16473, 0.164814, 0.164898, 0.164982,
0.165065, 0.165149, 0.165233, 0.165317, 0.1654, 0.165484, 0.165568, 0.165651,
0.165734, 0.165818, 0.165901, 0.165984, 0.166067, 0.16615, 0.166233, 0.166316,

0.166399, 0.166482, 0.166565, 0.166647, 0.16673, 0.166813, 0.166895, 0.166978,
0.16706, 0.167142, 0.167225, 0.167307, 0.167389, 0.167471, 0.167553, 0.167636,
0.167719, 0.167801, 0.167884, 0.167966, 0.168048, 0.168133, 0.168221, 0.168308,
0.168395, 0.168483, 0.16857, 0.168657, 0.168744, 0.168831, 0.168917, 0.169004,
0.169091, 0.169177, 0.169263, 0.16935, 0.169436, 0.169522, 0.169608, 0.169694,
0.16978, 0.169865, 0.169951, 0.170037, 0.170122, 0.170207, 0.170293, 0.170378,
0.170463, 0.170548, 0.170633, 0.170718, 0.170803, 0.170887, 0.170972, 0.171056,
0.171141, 0.171225, 0.171309, 0.171394, 0.171478, 0.171562, 0.171645, 0.171729,
0.171813, 0.171897, 0.17198, 0.172064, 0.172147, 0.172231, 0.172314, 0.172397,
0.17248, 0.172563, 0.172646, 0.172729, 0.172811, 0.172894, 0.172977, 0.173059,
0.173142, 0.173224, 0.173306, 0.173389, 0.173471, 0.173553, 0.173635, 0.173717,
0.173798, 0.17388, 0.173962, 0.174043, 0.174125, 0.174206, 0.174288, 0.174369,
0.17445, 0.174531, 0.174612, 0.174693, 0.174774, 0.174855, 0.174936, 0.175016,
0.175097, 0.175177, 0.175258, 0.175338, 0.175419, 0.175499, 0.175579, 0.175659,
0.175739, 0.175819, 0.175899, 0.175979, 0.176058, 0.176138, 0.176217, 0.176297,
0.176376, 0.176456, 0.176535, 0.176614, 0.176693, 0.176772, 0.176851, 0.17693,
0.177009, 0.177088, 0.177167, 0.177245, 0.177324, 0.177402, 0.177481, 0.177559,
0.177638, 0.177716, 0.177794, 0.177872, 0.17795, 0.178028, 0.178106, 0.178184,
0.178262, 0.178339, 0.178417, 0.178494, 0.178572, 0.178649, 0.178727,
0.178804, 0.178881, 0.178958, 0.179036, 0.179113, 0.17919, 0.179266, 0.179343,
0.17942, 0.179497, 0.179573, 0.17965, 0.179727, 0.179803, 0.179879, 0.179956,
0.180032, 0.180108, 0.180184, 0.18026, 0.180337, 0.180412, 0.180488, 0.180564,
0.18064, 0.180716, 0.180791, 0.180867, 0.180942, 0.181018, 0.181093, 0.181169,
0.181244, 0.181319, 0.181394, 0.181469, 0.181544, 0.181619, 0.181694, 0.181769,
0.181844, 0.181919, 0.181993, 0.182068, 0.182142, 0.182217, 0.182291,
0.182366, 0.18244, 0.182514, 0.182589, 0.182663, 0.182737, 0.182811, 0.182885,
0.182959, 0.183033, 0.183106, 0.18318, 0.183254, 0.183327, 0.183401, 0.183474,
0.183548, 0.183621, 0.183695, 0.183768, 0.183841, 0.183914, 0.183987, 0.18406,
0.184133, 0.184206, 0.184279, 0.184352, 0.184425, 0.184498, 0.18457, 0.184643,
0.184715, 0.184788, 0.18486, 0.184933, 0.185005, 0.185077, 0.18515, 0.185222,
0.185294, 0.185366, 0.185438, 0.18551, 0.185582, 0.185654, 0.185726, 0.185798,
0.18587, 0.185941, 0.186013, 0.186085, 0.186156, 0.186228, 0.186299, 0.186371,
0.186442, 0.186514, 0.186585, 0.186656, 0.186728, 0.186799, 0.18687, 0.186941,
0.187012, 0.187083, 0.187154, 0.187225, 0.187296, 0.187367, 0.187438, 0.187509,
0.187579, 0.18765, 0.187721, 0.187791, 0.187862, 0.187932, 0.188003, 0.188073,
0.188144, 0.188214, 0.188284, 0.188355, 0.188425, 0.188495, 0.188565, 0.188635,
0.188705, 0.188775, 0.188845, 0.188915, 0.188985, 0.189055, 0.189125, 0.189194,
0.189264, 0.189334, 0.189403, 0.189473, 0.189542, 0.189612, 0.189681, 0.189751,
0.18982, 0.189889, 0.189959, 0.190028, 0.190097, 0.190166, 0.190236, 0.190305,
0.190374, 0.190443, 0.190512, 0.190581, 0.19065, 0.190718, 0.190787, 0.190856,
0.190925, 0.190993, 0.191062, 0.191131, 0.191199, 0.191268, 0.191336, 0.191405,
0.191473, 0.191541, 0.19161, 0.191678, 0.191746, 0.191815, 0.191883, 0.191951,
0.192019, 0.192087, 0.192155, 0.192223, 0.192291, 0.192359, 0.192427, 0.192495,
0.192562, 0.19263, 0.192698, 0.192766, 0.192833, 0.192901, 0.192968, 0.193036,

0.193103, 0.193171, 0.193238, 0.193306, 0.193373, 0.19344, 0.193508, 0.193575,
0.193642, 0.193709, 0.193776, 0.193843, 0.19391, 0.193977, 0.194044, 0.194111,
0.194178, 0.194245, 0.194312, 0.194379, 0.194446, 0.194512, 0.194579, 0.194646,
0.194712, 0.194779, 0.194846, 0.194912, 0.194979, 0.195045, 0.195112, 0.195178,
0.195245, 0.195311, 0.195378, 0.195444, 0.19551, 0.195576, 0.195643, 0.195709,
0.195775, 0.195841, 0.195907, 0.195973, 0.19604, 0.196106, 0.196172, 0.196238,
0.196304, 0.196369, 0.196435, 0.196501, 0.196567, 0.196633, 0.196699, 0.196764,
0.19683, 0.196896, 0.196961, 0.197027, 0.197093, 0.197158, 0.197224, 0.197289,
0.197355, 0.19742, 0.197486, 0.197551, 0.197616, 0.197682, 0.197747, 0.197812,
0.197877, 0.197943, 0.198008, 0.198073, 0.198138, 0.198203, 0.198268, 0.198333,
0.198398, 0.198463, 0.198528, 0.198593, 0.198658, 0.198723, 0.198788,
0.198853, 0.198917, 0.198982, 0.199047, 0.199112, 0.199176, 0.199241,
0.199305, 0.19937, 0.199435, 0.199499, 0.199564, 0.199628, 0.199693, 0.199757,
0.199821, 0.199886, 0.199956, 0.200031, 0.200106, 0.20018, 0.200255, 0.200329,
0.200404, 0.200478, 0.200552, 0.200626, 0.2007, 0.200774, 0.200848, 0.200923,
0.200997, 0.201071, 0.201146, 0.20122, 0.201294, 0.201368, 0.201442, 0.201516,
0.20159, 0.201664, 0.201737, 0.201811, 0.201884, 0.201958, 0.202031, 0.202104,
0.202178, 0.202251, 0.202324, 0.202397, 0.20247, 0.202542, 0.202615, 0.202688,
0.20276, 0.202833, 0.202905, 0.202978, 0.20305, 0.203122, 0.203195, 0.203267,
0.203339, 0.203411, 0.203483, 0.203554, 0.203626, 0.203698, 0.203769, 0.203841,
0.203912, 0.203984, 0.204055, 0.204126, 0.204197, 0.204269, 0.20434, 0.204411,
0.204481, 0.204552, 0.204623, 0.204694, 0.204764, 0.204835, 0.204905, 0.204976,
0.205046, 0.205116, 0.205187, 0.205257, 0.205327, 0.205397, 0.205467, 0.205537,
0.205607, 0.205676, 0.205746, 0.205816, 0.205885, 0.205955, 0.206024,
0.206094, 0.206163, 0.206232, 0.206301, 0.206371, 0.20644, 0.206509, 0.206578,
0.206646, 0.206715, 0.206784, 0.206853, 0.206921, 0.20699, 0.207058, 0.207127,
0.207195, 0.207264, 0.207332, 0.2074, 0.207468, 0.207536, 0.207604, 0.207672,
0.20774, 0.207808, 0.207876, 0.207944, 0.208011, 0.208079, 0.208146, 0.208214,
0.208281, 0.208349, 0.208416, 0.208483, 0.208551, 0.208618, 0.208685, 0.208752,
0.208819, 0.208886, 0.208953, 0.209019, 0.209086, 0.209153, 0.20922, 0.209286,
0.209353, 0.209419, 0.209486, 0.209552, 0.209618, 0.209685, 0.209751, 0.209817,
0.209883, 0.209949, 0.210015, 0.210081, 0.210147, 0.210213, 0.210278, 0.210344,
0.21041, 0.210475, 0.210541, 0.210606, 0.210672, 0.210737, 0.210803, 0.210868,
0.210933, 0.210998, 0.211064, 0.211129, 0.211194, 0.211259, 0.211324, 0.211388,
0.211453, 0.211518, 0.211583, 0.211647, 0.211712, 0.211777, 0.211841, 0.211906,
0.21197, 0.212035, 0.212099, 0.212163, 0.212227, 0.212292, 0.212356, 0.21242,
0.212484, 0.212548, 0.212612, 0.212676, 0.212739, 0.212803, 0.212867, 0.212931,
0.212994, 0.213058, 0.213121, 0.213185, 0.213248, 0.213312, 0.213375, 0.213439,
0.213502, 0.213565, 0.213628, 0.213691, 0.213754, 0.213817, 0.21388, 0.213943,
0.214006, 0.214069, 0.214132, 0.214195, 0.214257, 0.21432, 0.214383, 0.214445,
0.214508, 0.21457, 0.214633, 0.214695, 0.214757, 0.21482, 0.214882, 0.214944,
0.215006, 0.215069, 0.215131, 0.215193, 0.215255, 0.215317, 0.215378, 0.21544,
0.215502, 0.215564, 0.215626, 0.215687, 0.215749, 0.215811, 0.215872, 0.215934,
0.215995, 0.216057, 0.216118, 0.216179, 0.216241, 0.216302, 0.216363, 0.216424,

```
0.216485, 0.216546, 0.216608, 0.216669, 0.21673, 0.21679, 0.216851, 0.216912,
0.216973, 0.217034, 0.217094, 0.217155, 0.217216, 0.217276, 0.217337, 0.217398,
0.217458, 0.217519, 0.217579, 0.21764, 0.2177, 0.217761, 0.217821, 0.217881,
0.217942, 0.218002, 0.218062, 0.218123, 0.218183, 0.218243, 0.218303, 0.218363}
```

In[•]:=
```
Ps = Psplus;
```

```
(* step five: wealth dynamics:
   find {c,b,p,w} for each point below wsel;
(****** important, i actually need
 this for wealth above wsel as well!
```

In[•]:=
```
priceupdate = Flatten[
  Table[Position[Table[{1 - dl, dl}.{V[wealth[[i]] + b] - b /. If[wealth[[i]] < cbar,
        b → Min[cbar - wealth[[i]], dl / (1 - dl)
          ({qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) / (wealth[[
              IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] +
              1]]), (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[
              IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
            (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                grid] + 2]] - wealth[[IntegerPart[
                N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
           {Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
            Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
           {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
                2]] - N[Rb[wealth[[j]] - wealth[[i]]]]) / (wealth[[
              IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
            wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
              1]]), (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[
              IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
            (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                grid] + 2]] - wealth[[IntegerPart[
                N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
           {Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
            Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}} -
        {qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) / (wealth[[
              IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
```

```
                    wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] +
                      1]]), (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[
                     IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                   (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] +
                       2]] - wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                         grid] + 1]])}.{Pmplus[[IntegerPart[
                    N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]], Pmplus[[
                   IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
                 {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
                       2]] - N[Rb[wealth[[j]] - wealth[[i]]]]) / (wealth[[
                     IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
                    wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
                      1]]), (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[
                     IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
                   (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                         grid] + 2]] - wealth[[IntegerPart[
                       N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
                  {Pmplus[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                       grid] + 1]], Pmplus[[IntegerPart[
                     N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}})], b → 0 ],
  {qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                 grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) /
       (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
         wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
      (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
            N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
       (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
         wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
     {Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
      Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
     {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
         N[Rb[wealth[[j]] - wealth[[i]]]]) /
       (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
         wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
      (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
            N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
       (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
         wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
     {Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
      Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}}},
  {i, 1, j}], Max[Table[{1 - dl, dl}.{V[wealth[[i]] + b] - b /.
    If[wealth[[i]] < cbar,
```

```
b → Min[cbar - wealth[[i]], dl / (1 - dl)
    ({qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                    grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) / (wealth[[
                IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
              wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                    grid] + 1]]), (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[
                IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
            (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                    grid] + 2]] - wealth[[IntegerPart[
                  N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
          {Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
           Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
          {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
                  2]] - N[Rb[wealth[[j]] - wealth[[i]]]]) / (wealth[[
                IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
              wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                    grid] + 1]]), (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[
                IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
            (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                    grid] + 2]] - wealth[[IntegerPart[
                  N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
          {Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
           Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}} -
      {qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                    grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) / (wealth[[
                IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
              wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                    grid] + 1]]), (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[
                IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
            (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
                    grid] + 2]] - wealth[[IntegerPart[N[Ra[wealth[[j]] -
                       wealth[[i]]]] / grid] + 1]])}.{Pmplus[[IntegerPart[
                  N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]], Pmplus[[
                IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
          {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
                  2]] - N[Rb[wealth[[j]] - wealth[[i]]]]) / (wealth[[
                IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
              wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                    grid] + 1]]), (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[
                IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
            (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                    grid] + 2]] - wealth[[IntegerPart[
```

```
                    N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
              {Pmplus[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] /
                    grid] + 1]], Pmplus[[IntegerPart[
                  N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]]}])], b → 0 ],
 {qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] /
             grid] + 2]] - N[Ra[wealth[[j]] - wealth[[i]]]]) /
      (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
        wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
     (N[Ra[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
           N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
      (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
        wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
    {Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
     Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[i]]]] / grid] + 2]]},
   {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
           2]] - N[Rb[wealth[[j]] - wealth[[i]]]]) /
      (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
        wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]),
     (N[Rb[wealth[[j]] - wealth[[i]]]] - wealth[[IntegerPart[
           N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]]) /
      (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 2]] -
        wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]])}.
    {Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] + 1]],
     Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[i]]]] / grid] +
       2]]}}}, {i, 1, j}]]], {j, 1, wsel}]]
```

```
In[•]:= priceupdate = {1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
        1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
        1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
        1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
        1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
        1, 1, 1, 1, 2, 2, 2, 3, 3, 4, 4, 5, 5, 6, 4, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10,
        10, 11, 11, 11, 12, 12, 13, 13, 14, 14, 15, 15, 15, 16, 16, 17, 17, 17, 18, 18,
        19, 19, 19, 20, 20, 21, 21, 21, 21, 21, 22, 22, 23, 23, 23, 24, 24, 24, 25, 25,
        26, 26, 26, 27, 27, 27, 28, 28, 29, 29, 29, 30, 30, 31, 31, 31, 32, 32, 32, 33,
        33, 34, 34, 34, 35, 35, 35, 36, 36, 36, 37, 37, 37, 38, 38, 39, 39, 39, 40, 40,
        40, 41, 41, 41, 42, 42, 42, 43, 43, 43, 44, 44, 45, 45, 45, 46, 46, 46, 46, 46,
        46, 46, 47, 47, 47, 48, 48, 48, 49, 49, 49, 50, 50, 50, 51, 51, 51, 52, 52, 52,
        53, 53, 53, 54, 54, 54, 55, 55, 55, 56, 56, 56, 57, 57, 57, 58, 58, 58, 58, 59,
        59, 54, 54, 54, 55, 55, 55, 54, 54, 54, 55, 55, 55, 56, 56, 56, 57, 57, 57, 58,
        58, 58, 59, 59, 59, 60, 60, 60, 60, 61, 61, 61, 62, 62, 62, 63, 63, 63, 64, 64,
        64, 65, 65, 65, 66, 66, 66, 66, 67, 67, 67, 68, 68, 68, 69, 69, 69, 70, 70, 70,
        71, 71, 71, 71, 72, 72, 72, 73, 73, 73, 73, 74, 74, 74, 74, 75, 75, 75, 75, 76,
        76, 76, 77, 77, 77, 78, 78, 78, 78, 79, 79, 79, 80, 80, 80, 81, 81, 81, 82, 82,
        82, 82, 83, 83, 83, 84, 84, 84, 85, 85, 85, 85, 86, 86, 86, 87, 87, 87, 88, 88,
        88, 88, 89, 89, 89, 90, 90, 90, 90, 91, 91, 91, 92, 92, 92, 92, 93, 93, 93, 94,
        94, 94, 94, 92, 93, 93, 93, 94, 94, 93, 94, 94, 94, 94, 95, 95, 95, 96, 96, 96,
        96, 97, 97, 97, 98, 98, 98, 99, 99, 99, 99, 100, 100, 100, 101, 101, 101, 101,
        102, 102, 102, 103, 103, 103, 103, 104, 104, 104, 105, 105, 105, 105, 106, 106,
        106, 107, 107, 107, 107, 108, 108, 108, 108, 109, 109, 109, 110, 110, 110};

In[•]:= wealthupdate = Table[N[R[wealth[[j]] - wealth[[priceupdate[[j]]]]]], {j, 1, wsel}]

In[•]:= wealthupdate = {0.`, 0.0007499062734299677`, 0.0014996251873831135`,
        0.002249156882219605`, 0.002998501498127304`, 0.003747659175118212`,
        0.004496630053027584`, 0.005245414271520143 5`, 0.005994011970083424`,
        0.006742423288033983`, 0.007490648364513408`, 0.008238687338489203`,
        0.008986540348759675`, 0.009734207533947714`, 0.010481689032503905`,
        0.011228984982709633`, 0.011976095522672203`, 0.012723020790327944`,
        0.013469760923443985`, 0.014216316059615597`, 0.014962686336267073`,
        0.01570887189065351`, 0.016454872859860803`, 0.01720068938080388`,
        0.01794632159023024`, 0.01869176962471597`, 0.019437033620671507`,
        0.020182113714336758`, 0.0209270100417851`, 0.02167172273892115`,
        0.022416251941483`, 0.023160597785039982`, 0.023904760404996228`,
        0.02464873993658978`, 0.02539253651488993`, 0.026136150274802095`,
        0.02687958135106472`, 0.027622829878252375`, 0.028365895990773105`,
        0.029108779822870634`, 0.029851481508623046`, 0.03059400118194633`,
        0.03133633897659038`, 0.03207849502614302`, 0.032820469464026836`,
        0.0335622624235028`, 0.03430387403766799`, 0.035045304439457414`,
        0.0357865537616 4397`, 0.03652762213683802`, 0.03726850969748785`,
```

0.038009216575880966`, 0.038749742904144124`, 0.039490088814240654`,
0.04023025443797579`, 0.040970239906994`, 0.04171004535277811`,
0.04244967090665286`, 0.043189116699782204`, 0.043928382863171134`,
0.04466746952766565`, 0.045406376823953654`, 0.04614510488256274`,
0.04688365383386417`, 0.04762202380807068`, 0.04836021493523601`,
0.04909822734525893`, 0.04983606116787831`, 0.0505737165326789 5`,
0.05131119356908 5756`, 0.05204849240637088`, 0.05278561317364 6606`,
0.05352255599987288`, 0.054259321013852446`, 0.05499590834423218`,
0.05573231811950441`, 0.05646855046800647`, 0.05720460551792 2946`,
0.05794048339728164`, 0.058676184233957596`, 0.0594117081556 7043`,
0.06014705528999009`, 0.06088222576432978`, 0.06161721970595124`,
0.06235203724196259`, 0.06308667849932048`, 0.06382114360482882`,
0.06455543268513919`, 0.06528954586675217`, 0.06602348327601648`,
0.06675724503913072`, 0.06749083128214073`, 0.06822424213094269`,
0.06895747771128313`, 0.06969053814875581`, 0.07042342356880793`,
0.07115613409673438`, 0.07188866985768261`, 0.07262103097664818`,
0.07335321757848057`, 0.07408522978787957`, 0.07481706772939578`,
0.07554873152743236`, 0.07628022130624501`, 0.07701153718994025`,
0.07774267930247891`, 0.07847364776767307`, 0.07920444270918825`,
0.07993506425054386`, 0.08066551251511234`, 0.08139578762612087`,
0.08212588970664836`, 0.08285581887963067`, 0.08358557526785715`,
0.08431515899397013`, 0.08504457018046985`, 0.08577380894970998`,
0.08650287542389945`, 0.0872317697251046`, 0.08796049197524525`,
0.08868904229609997`, 0.0894174208093017`, 0.09014562763634126`,
0.09087366289856602`, 0.09160152671718036`, 0.09232921921324522`,
0.09305674050768076`, 0.09378409072126415`, 0.09451126997463044`,
0.09523827838827303`, 0.0959651160825441`, 0.09669178317765414`,
0.09741827979367335`, 0.0981446060505311`, 0.09887076206801515`,
0.09959674796577378`, 0.1003225638633154`, 0.10104820988000718`,
0.10177368613507953`, 0.10249899274762031`, 0.10322412983658014`,
0.10394909752076975`, 0.10467389591886134`, 0.10539852514938897`,
0.10539852514938897`, 0.10612298533074815`, 0.10684727658119675`,
0.10684727658119675`, 0.10757139901885404`, 0.10757139901885404`,
0.10829535276170299`, 0.10829535276170299`, 0.10901913792758755`,
0.10901913792758755`, 0.111189483139849`, 0.11191259517358532`,
0.11263553921752933`, 0.11263553921752933`, 0.11335831538870567`,
0.11335831538870567`, 0.11408092380400392`, 0.11408092380400392`,
0.1148033645801787`, 0.1148033645801787`, 0.1155256378338474`,
0.1155256378338474`, 0.11624774368149371`, 0.11624774368149371`,
0.11696968223946635`, 0.11696968223946635`, 0.11769145362397904`,
0.1184130579511109`, 0.1184130579511109`, 0.11913449533680742`,
0.11913449533680742`, 0.11985576589687863`, 0.11985576589687863`,
0.12057686974700266`, 0.12057686974700266`, 0.12129780700272175`,
0.12201857777944669`, 0.12201857777944669`, 0.12273918219245461`,

```
0.12273918219245461`, 0.12345962035688851`, 0.12417989238776084`,
0.12417989238776084`, 0.12489999839994903`, 0.12489999839994903`,
0.12561993850819908`, 0.12633971282712642`, 0.12633971282712642`,
0.1270593214712128`, 0.1270593214712128`, 0.12777876455480763`,
0.12849804219213112`, 0.12921715449727111`, 0.129936101584184`,
0.129936101584184`, 0.13065488356669563`, 0.13065488356669563`,
0.13137350055850083`, 0.1320919526731652`, 0.1320919526731652`,
0.132810240024122`, 0.1335283627246775`, 0.1335283627246775`,
0.1342463208880056`, 0.1342463208880056`, 0.1349641146271514`,
0.13568174405503086`, 0.13568174405503086`, 0.13639920928443017`,
0.13711651042800765`, 0.13711651042800765`, 0.13783364759829153`,
0.13783364759829153`, 0.13855062090768255`, 0.13926743046845225`,
0.13926743046845225`, 0.13998407639274468`, 0.13998407639274468`,
0.14070055879257604`, 0.14141687777983414`, 0.14141687777983414`,
0.14213303346627892`, 0.14284902596354465`, 0.14284902596354465`,
0.1435648553831368`, 0.1435648553831368`, 0.1442805218364347`,
0.14499602543469026`, 0.14499602543469026`, 0.14571136628903059`,
0.1464265445104549`, 0.1464265445104549`, 0.14714156020983582`,
0.14785641349792167`, 0.14785641349792167`, 0.14857110448533462`,
0.14928563328257072`, 0.14928563328257072`, 0.15`, 0.15`, 0.15071420474786956`,
0.15142824763630003`, 0.15142824763630003`, 0.15214212877528732`,
0.1528558482747031`, 0.1528558482747031`, 0.1535694062442956`,
0.1542828027936869`, 0.1542828027936869`, 0.15499603803237738`,
0.1557091120697418`, 0.1557091120697418`, 0.15642202501503322`,
0.1571347769773781`, 0.1571347769773781`, 0.15784736806578437`,
0.15784736806578437`, 0.15855979838913292`, 0.15927206805618477`,
0.15927206805618477`, 0.15998417717557567`, 0.1606961258558215`,
0.16140791420531508`, 0.16211954233232584`, 0.16283101034500413`,
0.163542318351376`, 0.163542318351376`, 0.16425346645934802`,
0.16496445477670418`, 0.16496445477670418`, 0.16567528341110815`,
0.16638595247010235`, 0.16638595247010235`, 0.16709646206110973`,
0.16780681229143113`, 0.16780681229143113`, 0.16851700326824792`,
0.16922703509862158`, 0.16922703509862158`, 0.16993690788949323`,
0.17064662174768364`, 0.17064662174768364`, 0.1713561767798959`,
0.17206557309271275`, 0.17206557309271275`, 0.17277481079259704`,
0.17348388998589348`, 0.17348388998589348`, 0.17419281077882864`,
0.17490157327750877`, 0.17490157327750877`, 0.1756101775879233`,
0.17631862381594177`, 0.17631862381594177`, 0.1770269120673187`,
0.1777350424476869`, 0.1777350424476869`, 0.17844301506256377`,
0.179150830017349`, 0.179150830017349`, 0.17985848741732546`,
0.1805659873676575`, 0.18127332997339307`, 0.18127332997339307`,
0.1819805153394638`, 0.18622033136442084`, 0.1869264189811468`,
0.1876323501934789`, 0.1876323501934789`, 0.18833812510530334`,
0.1890437438203949`, 0.19045451307490024`, 0.1911596638212889`,
```

0.19186465878489267`, 0.19186465878489267`, 0.19256949806891432`,
0.19327418177644118`, 0.19327418177644118`, 0.1939787100104473`,
0.19468308287379266`, 0.19468308287379266`, 0.1953873004692248`,
0.19609136289937723`, 0.19609136289937723`, 0.19679527026677102`,
0.19749902267381447`, 0.19749902267381447`, 0.19820262022280266`,
0.1989060630159183`, 0.1989060630159183`, 0.1996093511552317`,
0.20031248474270047`, 0.20101546388017333`, 0.20101546388017333`,
0.20171828866938268`, 0.20242095921195213`, 0.20242095921195213`,
0.20312347560939337`, 0.20382583796310616`, 0.20382583796310616`,
0.2045280463743797`, 0.2052301009443922`, 0.2052301009443922`,
0.20593200177421078`, 0.20663374896479203`, 0.20663374896479203`,
0.20733534261698328`, 0.20803678283151816`, 0.20803678283151816`,
0.2087380697090251`, 0.20943920335001787`, 0.21014018385490418`,
0.21014018385490418`, 0.21084101132398025`, 0.2115416858574326`,
0.2115416858574326`, 0.2122422075553394`, 0.21294257651766957`,
0.21294257651766957`, 0.21364279284428278`, 0.21434285663492947`,
0.21434285663492947`, 0.21504276798925304`, 0.21574252700678764`,
0.21574252700678764`, 0.21644213378695776`, 0.2171415884290826`,
0.21784089103237037`, 0.21784089103237037`, 0.21854004169592356`,
0.21923904051873766`, 0.21923904051873766`, 0.21993788759969712`,
0.22063658303758293`, 0.22133512693106816`, 0.22133512693106816`,
0.22203351937871707`, 0.22273176047898824`, 0.223429850330235`,
0.223429850330235`, 0.2241277890307014`, 0.22482557667852765`,
0.22552321337174686`, 0.22552321337174686`, 0.22622069920828602`,
0.22691803428596558`, 0.22691803428596558`, 0.227615218702502`,
0.22831225255550525`, 0.22831225255550525`, 0.22900913594247996`,
0.22970586896082557`, 0.23040245170783624`, 0.23040245170783624`,
0.23109888428070224`, 0.23179516677650858`, 0.23179516677650858`,
0.23249129929223455`, 0.23318728192475735`, 0.23318728192475735`,
0.23388311477084756`, 0.23457879792717407`, 0.23457879792717407`,
0.2352743314902983`, 0.23596971555668267`, 0.23666495022268252`,
0.23666495022268252`, 0.2373600355845502`, 0.23805497173843504`,
0.23805497173843504`, 0.23874975878038462`, 0.2394443968063409`,
0.2394443968063409`, 0.24013888591214538`, 0.24083322619353575`,
0.24152741774614617`, 0.24152741774614617`, 0.24222146066551087`,
0.24291535504705974`, 0.24291535504705974`, 0.24360910098612232`,
0.24430269857792375`, 0.24430269857792375`, 0.24499614791759017`,
0.24568944910014467`, 0.24638260222050823`, 0.24638260222050823`,
0.24707560737350232`, 0.24776846465384583`, 0.24776846465384583`,
0.24846117415615687`, 0.2491537359749536`, 0.2498461502046525`,
0.2498461502046525`, 0.2505384169395688`, 0.25123053627392`, 0.25123053627392`,
0.2519225083018197`, 0.25261433311728476`, 0.25330601081423065`,
0.25330601081423065`, 0.25399754148647125`, 0.254688925227724`,
0.254688925227724`, 0.2553801621316061`, 0.25607125229163197`,

```
0.25676219580122206`, 0.2588341473600644`, 0.2588341473600644`,
0.2595245052001065`, 0.2602147168553177`, 0.2602147168553177`,
0.2609047824185238`, 0.2622844756397318`, 0.2622844756397318`,
0.2629741034828945`, 0.2636635856043741`, 0.26435292209650596`,
0.26435292209650596`, 0.26504211305153014`, 0.2657311585615858`,
0.2657311585615858`, 0.2664200587187189`, 0.2671088136148754`,
0.26779742334190626`, 0.26779742334190626`, 0.2684858879915635`,
0.2691742076555057`, 0.2691742076555057`, 0.2698623824252908`,
0.27055041239238475`, 0.27055041239238475`, 0.2712382976481549`,
0.27192603828387263`, 0.27261363439071395`, 0.27261363439071395`,
0.27330108605975934`, 0.273988393381992`, 0.273988393381992`,
0.2746755564483023`, 0.2753625753494835`, 0.27604945017623317`,
0.27604945017623317`, 0.2767361810191553`, 0.2774227679687584`,
0.2774227679687584`, 0.2781092111154564`, 0.2787955105495672`,
0.2794816663613169`, 0.2794816663613169`, 0.28016767864083425`,
0.2808535474781553`, 0.2808535474781553`, 0.2815392729632231`,
0.2822248551858846`, 0.2829102942358932`, 0.2829102942358932`,
0.2835955902029106`, 0.2842807431765024`, 0.2842807431765024`,
0.2849657532461429`, 0.28565062050121215`, 0.28633534503099645`,
0.28633534503099645`, 0.2870199269246907`, 0.2877043662713956`,
0.28838866316012`, 0.28838866316012`, 0.289072817679779`, 0.28975682991919616`,
0.28975682991919616`, 0.2904406999671032`, 0.2911244279121381`};
```

In[•]:=
```
Length[wealthupdate]
```

In[•]:=
```
wsel = 517;
```

In[•]:=
```
N[Transpose[{wealth[[1 ;; Length[wealthupdate]]] / 0.258 + 1.5,
    (wealth[[1 ;; 517]] - Table[wealth[[priceupdate[[i]]]], {i, 1, 517}]) / 0.258}]]
```

Out[•]=
```
{{1.5, 0.}, {1.50194, 0.00193798}, {1.50388, 0.00387597}, {1.50581, 0.00581395},
 {1.50775, 0.00775194}, {1.50969, 0.00968992}, {1.51163, 0.0116279},
 {1.51357, 0.0135659}, {1.5155, 0.0155039}, {1.51744, 0.0174419},
 {1.51938, 0.0193798}, {1.52132, 0.0213178}, {1.52326, 0.0232558},
 {1.52519, 0.0251938}, {1.52713, 0.0271318}, {1.52907, 0.0290698},
 {1.53101, 0.0310078}, {1.53295, 0.0329457}, {1.53488, 0.0348837},
 {1.53682, 0.0368217}, {1.53876, 0.0387597}, {1.5407, 0.0406977},
 {1.54264, 0.0426357}, {1.54457, 0.0445736}, {1.54651, 0.0465116},
 {1.54845, 0.0484496}, {1.55039, 0.0503876}, {1.55233, 0.0523256},
 {1.55426, 0.0542636}, {1.5562, 0.0562016}, {1.55814, 0.0581395},
 {1.56008, 0.0600775}, {1.56202, 0.0620155}, {1.56395, 0.0639535},
 {1.56589, 0.0658915}, {1.56783, 0.0678295}, {1.56977, 0.0697674},
 {1.57171, 0.0717054}, {1.57364, 0.0736434}, {1.57558, 0.0755814},
 {1.57752, 0.0775194}, {1.57946, 0.0794574}, {1.5814, 0.0813953},
 {1.58333, 0.0833333}, {1.58527, 0.0852713}, {1.58721, 0.0872093},
 {1.58915, 0.0891473}, {1.59109, 0.0910853}, {1.59302, 0.0930233},
```

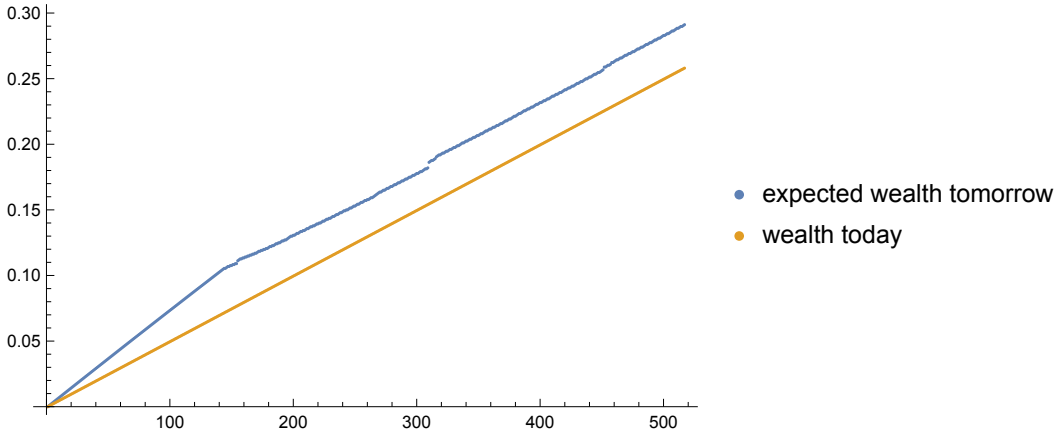
{1.59496, 0.0949612}, {1.5969, 0.0968992}, {1.59884, 0.0988372},
{1.60078, 0.100775}, {1.60271, 0.102713}, {1.60465, 0.104651}, {1.60659, 0.106589},
{1.60853, 0.108527}, {1.61047, 0.110465}, {1.6124, 0.112403}, {1.61434, 0.114341},
{1.61628, 0.116279}, {1.61822, 0.118217}, {1.62016, 0.120155}, {1.62209, 0.122093},
{1.62403, 0.124031}, {1.62597, 0.125969}, {1.62791, 0.127907}, {1.62984, 0.129845},
{1.63178, 0.131783}, {1.63372, 0.133721}, {1.63566, 0.135659}, {1.6376, 0.137597},
{1.63953, 0.139535}, {1.64147, 0.141473}, {1.64341, 0.143411}, {1.64535, 0.145349},
{1.64729, 0.147287}, {1.64922, 0.149225}, {1.65116, 0.151163}, {1.6531, 0.153101},
{1.65504, 0.155039}, {1.65698, 0.156977}, {1.65891, 0.158915}, {1.66085, 0.160853},
{1.66279, 0.162791}, {1.66473, 0.164729}, {1.66667, 0.166667}, {1.6686, 0.168605},
{1.67054, 0.170543}, {1.67248, 0.172481}, {1.67442, 0.174419}, {1.67636, 0.176357},
{1.67829, 0.178295}, {1.68023, 0.180233}, {1.68217, 0.182171}, {1.68411, 0.184109},
{1.68605, 0.186047}, {1.68798, 0.187984}, {1.68992, 0.189922}, {1.69186, 0.19186},
{1.6938, 0.193798}, {1.69574, 0.195736}, {1.69767, 0.197674}, {1.69961, 0.199612},
{1.70155, 0.20155}, {1.70349, 0.203488}, {1.70543, 0.205426}, {1.70736, 0.207364},
{1.7093, 0.209302}, {1.71124, 0.21124}, {1.71318, 0.213178}, {1.71512, 0.215116},
{1.71705, 0.217054}, {1.71899, 0.218992}, {1.72093, 0.22093}, {1.72287, 0.222868},
{1.72481, 0.224806}, {1.72674, 0.226744}, {1.72868, 0.228682}, {1.73062, 0.23062},
{1.73256, 0.232558}, {1.7345, 0.234496}, {1.73643, 0.236434}, {1.73837, 0.238372},
{1.74031, 0.24031}, {1.74225, 0.242248}, {1.74419, 0.244186}, {1.74612, 0.246124},
{1.74806, 0.248062}, {1.75, 0.25}, {1.75194, 0.251938}, {1.75388, 0.253876},
{1.75581, 0.255814}, {1.75775, 0.257752}, {1.75969, 0.25969}, {1.76163, 0.261628},
{1.76357, 0.263566}, {1.7655, 0.265504}, {1.76744, 0.267442}, {1.76938, 0.26938},
{1.77132, 0.271318}, {1.77326, 0.273256}, {1.77519, 0.275194}, {1.77713, 0.277132},
{1.77907, 0.277132}, {1.78101, 0.27907}, {1.78295, 0.281008}, {1.78488, 0.281008},
{1.78682, 0.282946}, {1.78876, 0.282946}, {1.7907, 0.284884}, {1.79264, 0.284884},
{1.79457, 0.286822}, {1.79651, 0.286822}, {1.79845, 0.292636}, {1.80039, 0.294574},
{1.80233, 0.296512}, {1.80426, 0.296512}, {1.8062, 0.29845}, {1.80814, 0.29845},
{1.81008, 0.300388}, {1.81202, 0.300388}, {1.81395, 0.302326}, {1.81589, 0.302326},
{1.81783, 0.304264}, {1.81977, 0.304264}, {1.82171, 0.306202}, {1.82364, 0.306202},
{1.82558, 0.30814}, {1.82752, 0.30814}, {1.82946, 0.310078}, {1.8314, 0.312016},
{1.83333, 0.312016}, {1.83527, 0.313953}, {1.83721, 0.313953}, {1.83915, 0.315891},
{1.84109, 0.315891}, {1.84302, 0.317829}, {1.84496, 0.317829}, {1.8469, 0.319767},
{1.84884, 0.321705}, {1.85078, 0.321705}, {1.85271, 0.323643}, {1.85465, 0.323643},
{1.85659, 0.325581}, {1.85853, 0.327519}, {1.86047, 0.327519}, {1.8624, 0.329457},
{1.86434, 0.329457}, {1.86628, 0.331395}, {1.86822, 0.333333}, {1.87016, 0.333333},
{1.87209, 0.335271}, {1.87403, 0.335271}, {1.87597, 0.337209}, {1.87791, 0.339147},
{1.87984, 0.341085}, {1.88178, 0.343023}, {1.88372, 0.343023}, {1.88566, 0.344961},
{1.8876, 0.344961}, {1.88953, 0.346899}, {1.89147, 0.348837}, {1.89341, 0.348837},
{1.89535, 0.350775}, {1.89729, 0.352713}, {1.89922, 0.352713}, {1.90116, 0.354651},
{1.9031, 0.354651}, {1.90504, 0.356589}, {1.90698, 0.358527}, {1.90891, 0.358527},
{1.91085, 0.360465}, {1.91279, 0.362403}, {1.91473, 0.362403}, {1.91667, 0.364341},
{1.9186, 0.364341}, {1.92054, 0.366279}, {1.92248, 0.368217}, {1.92442, 0.368217},
{1.92636, 0.370155}, {1.92829, 0.370155}, {1.93023, 0.372093}, {1.93217, 0.374031},

{1.93411, 0.374031}, {1.93605, 0.375969}, {1.93798, 0.377907}, {1.93992, 0.377907},
{1.94186, 0.379845}, {1.9438, 0.379845}, {1.94574, 0.381783}, {1.94767, 0.383721},
{1.94961, 0.383721}, {1.95155, 0.385659}, {1.95349, 0.387597}, {1.95543, 0.387597},
{1.95736, 0.389535}, {1.9593, 0.391473}, {1.96124, 0.391473}, {1.96318, 0.393411},
{1.96512, 0.395349}, {1.96705, 0.395349}, {1.96899, 0.397287}, {1.97093, 0.397287},
{1.97287, 0.399225}, {1.97481, 0.401163}, {1.97674, 0.401163}, {1.97868, 0.403101},
{1.98062, 0.405039}, {1.98256, 0.405039}, {1.9845, 0.406977}, {1.98643, 0.408915},
{1.98837, 0.408915}, {1.99031, 0.410853}, {1.99225, 0.412791}, {1.99419, 0.412791},
{1.99612, 0.414729}, {1.99806, 0.416667}, {2., 0.416667}, {2.00194, 0.418605},
{2.00388, 0.418605}, {2.00581, 0.420543}, {2.00775, 0.422481}, {2.00969, 0.422481},
{2.01163, 0.424419}, {2.01357, 0.426357}, {2.0155, 0.428295}, {2.01744, 0.430233},
{2.01938, 0.432171}, {2.02132, 0.434109}, {2.02326, 0.434109}, {2.02519, 0.436047},
{2.02713, 0.437984}, {2.02907, 0.437984}, {2.03101, 0.439922}, {2.03295, 0.44186},
{2.03488, 0.44186}, {2.03682, 0.443798}, {2.03876, 0.445736}, {2.0407, 0.445736},
{2.04264, 0.447674}, {2.04457, 0.449612}, {2.04651, 0.449612}, {2.04845, 0.45155},
{2.05039, 0.453488}, {2.05233, 0.453488}, {2.05426, 0.455426}, {2.0562, 0.457364},
{2.05814, 0.457364}, {2.06008, 0.459302}, {2.06202, 0.46124}, {2.06395, 0.46124},
{2.06589, 0.463178}, {2.06783, 0.465116}, {2.06977, 0.465116}, {2.07171, 0.467054},
{2.07364, 0.468992}, {2.07558, 0.468992}, {2.07752, 0.47093}, {2.07946, 0.472868},
{2.0814, 0.472868}, {2.08333, 0.474806}, {2.08527, 0.476744}, {2.08721, 0.476744},
{2.08915, 0.478682}, {2.09109, 0.48062}, {2.09302, 0.482558}, {2.09496, 0.482558},
{2.0969, 0.484496}, {2.09884, 0.496124}, {2.10078, 0.498062}, {2.10271, 0.5},
{2.10465, 0.5}, {2.10659, 0.501938}, {2.10853, 0.503876}, {2.11047, 0.507752},
{2.1124, 0.50969}, {2.11434, 0.511628}, {2.11628, 0.511628}, {2.11822, 0.513566},
{2.12016, 0.515504}, {2.12209, 0.515504}, {2.12403, 0.517442}, {2.12597, 0.51938},
{2.12791, 0.51938}, {2.12984, 0.521318}, {2.13178, 0.523256}, {2.13372, 0.523256},
{2.13566, 0.525194}, {2.1376, 0.527132}, {2.13953, 0.527132}, {2.14147, 0.52907},
{2.14341, 0.531008}, {2.14535, 0.531008}, {2.14729, 0.532946}, {2.14922, 0.534884},
{2.15116, 0.536822}, {2.1531, 0.536822}, {2.15504, 0.53876}, {2.15698, 0.540698},
{2.15891, 0.540698}, {2.16085, 0.542636}, {2.16279, 0.544574}, {2.16473, 0.544574},
{2.16667, 0.546512}, {2.1686, 0.54845}, {2.17054, 0.54845}, {2.17248, 0.550388},
{2.17442, 0.552326}, {2.17636, 0.552326}, {2.17829, 0.554264}, {2.18023, 0.556202},
{2.18217, 0.556202}, {2.18411, 0.55814}, {2.18605, 0.560078}, {2.18798, 0.562016},
{2.18992, 0.562016}, {2.19186, 0.563953}, {2.1938, 0.565891}, {2.19574, 0.565891},
{2.19767, 0.567829}, {2.19961, 0.569767}, {2.20155, 0.569767}, {2.20349, 0.571705},
{2.20543, 0.573643}, {2.20736, 0.573643}, {2.2093, 0.575581}, {2.21124, 0.577519},
{2.21318, 0.577519}, {2.21512, 0.579457}, {2.21705, 0.581395}, {2.21899, 0.583333},
{2.22093, 0.583333}, {2.22287, 0.585271}, {2.22481, 0.587209}, {2.22674, 0.587209},
{2.22868, 0.589147}, {2.23062, 0.591085}, {2.23256, 0.593023}, {2.2345, 0.593023},
{2.23643, 0.594961}, {2.23837, 0.596899}, {2.24031, 0.598837}, {2.24225, 0.598837},
{2.24419, 0.600775}, {2.24612, 0.602713}, {2.24806, 0.604651}, {2.25, 0.604651},
{2.25194, 0.606589}, {2.25388, 0.608527}, {2.25581, 0.608527}, {2.25775, 0.610465},
{2.25969, 0.612403}, {2.26163, 0.612403}, {2.26357, 0.614341}, {2.2655, 0.616279},
{2.26744, 0.618217}, {2.26938, 0.618217}, {2.27132, 0.620155}, {2.27326, 0.622093},

```
{2.27519, 0.622093}, {2.27713, 0.624031}, {2.27907, 0.625969}, {2.28101, 0.625969},
{2.28295, 0.627907}, {2.28488, 0.629845}, {2.28682, 0.629845}, {2.28876, 0.631783},
{2.2907, 0.633721}, {2.29264, 0.635659}, {2.29457, 0.635659}, {2.29651, 0.637597},
{2.29845, 0.639535}, {2.30039, 0.639535}, {2.30233, 0.641473}, {2.30426, 0.643411},
{2.3062, 0.643411}, {2.30814, 0.645349}, {2.31008, 0.647287}, {2.31202, 0.649225},
{2.31395, 0.649225}, {2.31589, 0.651163}, {2.31783, 0.653101}, {2.31977, 0.653101},
{2.32171, 0.655039}, {2.32364, 0.656977}, {2.32558, 0.656977}, {2.32752, 0.658915},
{2.32946, 0.660853}, {2.3314, 0.662791}, {2.33333, 0.662791}, {2.33527, 0.664729},
{2.33721, 0.666667}, {2.33915, 0.666667}, {2.34109, 0.668605}, {2.34302, 0.670543},
{2.34496, 0.672481}, {2.3469, 0.672481}, {2.34884, 0.674419}, {2.35078, 0.676357},
{2.35271, 0.676357}, {2.35465, 0.678295}, {2.35659, 0.680233},
{2.35853, 0.682171}, {2.36047, 0.682171}, {2.3624, 0.684109}, {2.36434, 0.686047},
{2.36628, 0.686047}, {2.36822, 0.687984}, {2.37016, 0.689922}, {2.37209, 0.69186},
{2.37403, 0.697674}, {2.37597, 0.697674}, {2.37791, 0.699612}, {2.37984, 0.70155},
{2.38178, 0.70155}, {2.38372, 0.703488}, {2.38566, 0.707364}, {2.3876, 0.707364},
{2.38953, 0.709302}, {2.39147, 0.71124}, {2.39341, 0.713178}, {2.39535, 0.713178},
{2.39729, 0.715116}, {2.39922, 0.717054}, {2.40116, 0.717054}, {2.4031, 0.718992},
{2.40504, 0.72093}, {2.40698, 0.722868}, {2.40891, 0.722868}, {2.41085, 0.724806},
{2.41279, 0.726744}, {2.41473, 0.726744}, {2.41667, 0.728682},
{2.4186, 0.73062}, {2.42054, 0.73062}, {2.42248, 0.732558}, {2.42442, 0.734496},
{2.42636, 0.736434}, {2.42829, 0.736434}, {2.43023, 0.738372},
{2.43217, 0.74031}, {2.43411, 0.74031}, {2.43605, 0.742248}, {2.43798, 0.744186},
{2.43992, 0.746124}, {2.44186, 0.746124}, {2.4438, 0.748062}, {2.44574, 0.75},
{2.44767, 0.75}, {2.44961, 0.751938}, {2.45155, 0.753876}, {2.45349, 0.755814},
{2.45543, 0.755814}, {2.45736, 0.757752}, {2.4593, 0.75969}, {2.46124, 0.75969},
{2.46318, 0.761628}, {2.46512, 0.763566}, {2.46705, 0.765504}, {2.46899, 0.765504},
{2.47093, 0.767442}, {2.47287, 0.76938}, {2.47481, 0.76938}, {2.47674, 0.771318},
{2.47868, 0.773256}, {2.48062, 0.775194}, {2.48256, 0.775194}, {2.4845, 0.777132},
{2.48643, 0.77907}, {2.48837, 0.781008}, {2.49031, 0.781008}, {2.49225, 0.782946},
{2.49419, 0.784884}, {2.49612, 0.784884}, {2.49806, 0.786822}, {2.5, 0.78876}}
```

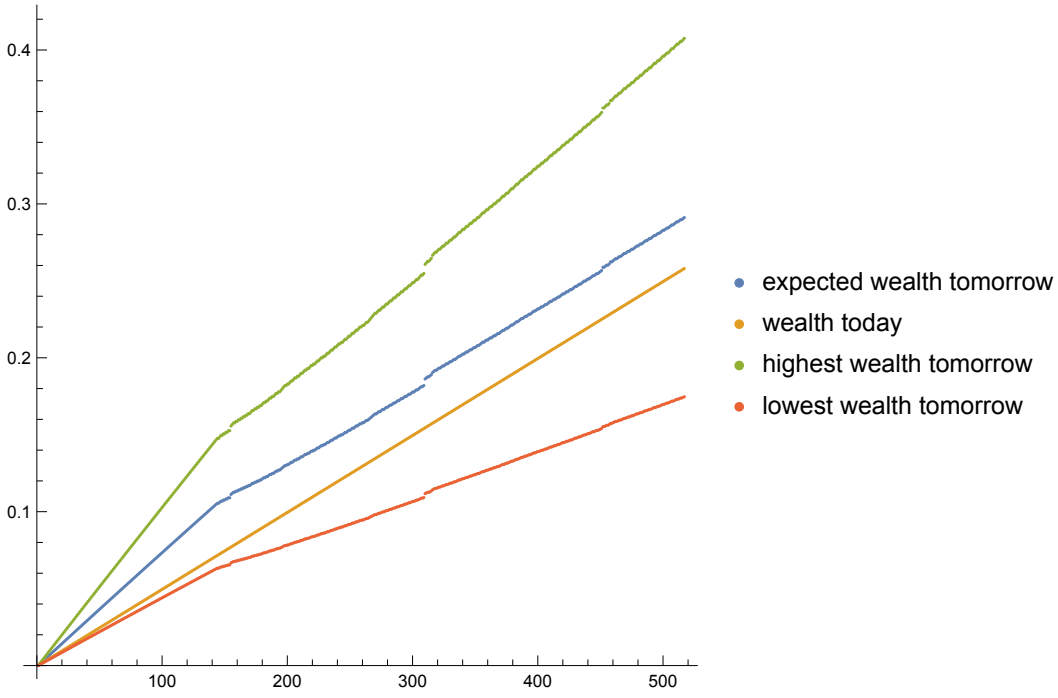
In[•]:=
```
ListPlot[{wealthupdate, wealth[[1 ;; Length[wealthupdate]]]},
 PlotLegends → {"expected wealth tomorrow", "wealth today"}]
```

Out[•]=



In[•]:=
```
ListPlot[{wealthupdate, wealth[[1 ;; Length[wealthupdate]]], shocka wealthupdate,
  shockb wealthupdate}, PlotLegends → {"expected wealth tomorrow", "wealth today",
   "highest wealth tomorrow", "lowest wealth tomorrow"}, AspectRatio → 1]
```

Out[•]=



In[•]:=
```
bupdate = Table[b /.
    If[wealth[[priceupdate[[j]]]] < cbar, b → Min[cbar - wealth[[priceupdate[[j]]]],
      dl / (1 - dl) ({qa, qb}.{{(wealth[[IntegerPart[
                    N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 2]] -
                N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]]) / (wealth[[
                 IntegerPart[N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
                    grid] + 2]] - wealth[[IntegerPart[
                    N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 1]]),
            (N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] - wealth[[
                 IntegerPart[N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
```

```
                grid] + 1]]) / (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[
                    priceupdate[[j]]]]]] / grid] + 2]] - wealth[[IntegerPart[
              N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 1]])}.
   {Ps[[IntegerPart[N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
        grid] + 1]], Ps[[IntegerPart[
      N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 2]]},
  {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
          grid] + 2]] - N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]]) /
     (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[priceupdate[[
                 j]]]]] / grid] + 2]] - wealth[[IntegerPart[
           N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 1]]),
    (N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] - wealth[[
        IntegerPart[N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
          grid] + 1]]) / (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[
                priceupdate[[j]]]]] / grid] + 2]] - wealth[[IntegerPart[
           N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 1]])}.
   {Ps[[IntegerPart[N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
        grid] + 1]], Ps[[IntegerPart[
      N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 2]]}} -
{qa, qb}.{{(wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[
                priceupdate[[j]]]]] / grid] + 2]] -
      N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]]) /
     (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[priceupdate[[
                 j]]]]] / grid] + 2]] - wealth[[IntegerPart[
           N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 1]]),
    (N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] - wealth[[
        IntegerPart[N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
          grid] + 1]]) / (wealth[[IntegerPart[N[Ra[wealth[[j]] - wealth[[
                priceupdate[[j]]]]] / grid] + 2]] - wealth[[IntegerPart[
           N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 1]])}.
   {Pmplus[[IntegerPart[N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
        grid] + 1]], Pmplus[[IntegerPart[
      N[Ra[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 2]]},
  {(wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
          grid] + 2]] - N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]]) /
     (wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[priceupdate[[
                 j]]]]] / grid] + 2]] - wealth[[IntegerPart[
           N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 1]]),
    (N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] - wealth[[
        IntegerPart[N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] /
          grid] + 1]]) / (wealth[[IntegerPart[
           N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]] / grid] + 2]] -
```

```
wealth[[IntegerPart[N[Rb[wealth[[j]] - wealth[[priceupdate[[
          j]]]]]] / grid] + 1]])}.{Pmplus[[IntegerPart[
      N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]]] / grid] + 1]],
    Pmplus[[IntegerPart[N[Rb[wealth[[j]] - wealth[[priceupdate[[j]]]]]] /
        grid] + 2]]}})], b → 0], {j, 1, wsel}]
pupdate = Table[wealth[[priceupdate[[j]]]], {j, 1, wsel}]
cupdate = pupdate + bupdate
```

Out[■]= $\{\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16},$ 0.0623718, 0.06176, 0.0611579, 0.0605637, 0.0599749, 0.0593943,

```
0.0588237, 0.0582594, 0.0577041, 0.0571553, 0.0566131, 0.0560759, 0.0555477,
0.0550261, 0.0545114, 0.0540034, 0.0534994, 0.0529995, 0.052503, 0.0520143,
0.0515305, 0.0510532, 0.0505811, 0.0501128, 0.0496498, 0.0491917, 0.0487375,
0.0482867, 0.0478415, 0.0474002, 0.0469625, 0.0465273, 0.0460974, 0.0456711,
0.0452489, 0.0448338, 0.044423, 0.044015, 0.0436112, 0.0432134, 0.0428186,
0.0424283, 0.0420398, 0.0416543, 0.0412705, 0.0408903, 0.0405133, 0.0401397,
0.039769, 0.0394004, 0.0394004, 0.0390351, 0.0386733, 0.0386733, 0.0383163,
0.0383163, 0.0379621, 0.0379621, 0.0376116, 0.0376116, 0.0365946, 0.036274,
0.0359596, 0.0359596, 0.0356508, 0.0356508, 0.0353421, 0.0353421, 0.0350347,
0.0350347, 0.0347238, 0.0347238, 0.0344141, 0.0344141, 0.0341068, 0.0341068,
0.0338012, 0.0334971, 0.0334971, 0.0331939, 0.0331939, 0.0328932, 0.0328932,
0.0325967, 0.0325967, 0.0323028, 0.0320111, 0.0320111, 0.0317224, 0.0317224,
0.0314351, 0.0311507, 0.0311507, 0.0308698, 0.0308698, 0.0305916, 0.0303159,
0.0303159, 0.0300418, 0.0300418, 0.0297703, 0.029504, 0.0292414, 0.028982,
0.028982, 0.0287266, 0.0287266, 0.0284723, 0.0282205, 0.0282205, 0.0279711,
0.0277242, 0.0277242, 0.0274794, 0.0274794, 0.0272366, 0.026995, 0.026995,
0.0267562, 0.026519, 0.026519, 0.0262844, 0.0262844, 0.0260522, 0.0258216,
0.0258216, 0.0255922, 0.0255922, 0.0253648, 0.0251398, 0.0251398, 0.0249168,
0.0246954, 0.0246954, 0.0244759, 0.0244759, 0.0242568, 0.0240401, 0.0240401,
0.0238258, 0.0236134, 0.0236134, 0.0234028, 0.0231934, 0.0231934, 0.022985,
0.022779, 0.022779, 0.0225742, 0.0225742, 0.0223717, 0.0221716, 0.0221716,
0.0219714, 0.0217737, 0.0217737, 0.0215778, 0.0213837, 0.0213837, 0.021191,
0.0209997, 0.0209997, 0.0208094, 0.0206195, 0.0206195, 0.0204307, 0.0204307,
0.0202434, 0.0200581, 0.0200581, 0.0198742, 0.0196917, 0.0195142, 0.0193399,
0.0191673, 0.0189976, 0.0189976, 0.01883, 0.0186641, 0.0186641, 0.0184993,
0.0183354, 0.0183354, 0.018173, 0.0180124, 0.0180124, 0.0178519, 0.0176915,
```

```
0.0176915, 0.0175319, 0.0173732, 0.0173732, 0.0172169, 0.0170614, 0.0170614,
0.0169069, 0.016753, 0.016753, 0.0166007, 0.0164493, 0.0164493, 0.0162995,
0.0161512, 0.0161512, 0.0160032, 0.0158563, 0.0158563, 0.0157108, 0.0155669,
0.0155669, 0.0154235, 0.0152814, 0.0151401, 0.0151401, 0.0149996, 0.0142602,
0.0141565, 0.0140538, 0.0140538, 0.0139509, 0.0138487, 0.0136471, 0.0135473,
0.0134482, 0.0134482, 0.0133492, 0.0132504, 0.0132504, 0.0131533, 0.0130567,
0.0130567, 0.0129605, 0.0128649, 0.0128649, 0.0127699, 0.0126754, 0.0126754,
0.0125821, 0.0124891, 0.0124891, 0.0123962, 0.0123038, 0.0122125, 0.0122125,
0.0121218, 0.0120319, 0.0120319, 0.0119424, 0.0118534, 0.0118534, 0.0117648,
0.0116768, 0.0116768, 0.0115894, 0.0115025, 0.0115025, 0.0114157, 0.0113299,
0.0113299, 0.0112446, 0.0111601, 0.0110762, 0.0110762, 0.0109925, 0.0109089,
0.0109089, 0.0108263, 0.0107445, 0.0107445, 0.0106629, 0.0105815, 0.0105815,
0.0105011, 0.010421, 0.010421, 0.0103414, 0.0102626, 0.0101839, 0.0101839,
0.0101052, 0.0100267, 0.0100267, 0.00994909, 0.00987177, 0.00979605, 0.00979605,
0.00972124, 0.00964692, 0.00957313, 0.00957313, 0.00950021, 0.00942797,
0.00935618, 0.00935618, 0.00928469, 0.0092135, 0.0092135, 0.00914284, 0.00907344,
0.00907344, 0.00900375, 0.00893426, 0.00886545, 0.00886545, 0.00879725,
0.00872938, 0.00872938, 0.00866184, 0.00859449, 0.00859449, 0.00852743,
0.00846091, 0.00846091, 0.00839502, 0.00832952, 0.00826373, 0.00826373,
0.00819813, 0.00813317, 0.00813317, 0.00806854, 0.00800439, 0.00800439,
0.00794082, 0.0078773, 0.00781411, 0.00781411, 0.00775141, 0.0076893, 0.0076893,
0.00762744, 0.00756557, 0.00756557, 0.00750394, 0.00744329, 0.00738308,
0.00738308, 0.00732303, 0.00726324, 0.00726324, 0.0072038, 0.00714449, 0.00708568,
0.00708568, 0.00702761, 0.00696962, 0.00696962, 0.00691174, 0.00685432,
0.00679759, 0.00679759, 0.00674126, 0.00668463, 0.00668463, 0.00662844,
0.00657275, 0.00651739, 0.00636982, 0.00636982, 0.00632405, 0.00627861,
0.00627861, 0.00623329, 0.00614517, 0.00614517, 0.00610323, 0.00606167,
0.00602038, 0.00602038, 0.00597936, 0.00593827, 0.00593827, 0.00589721,
0.00585666, 0.00581563, 0.00581563, 0.0057734, 0.00573034, 0.00573034,
0.00568783, 0.00564527, 0.00564527, 0.00560277, 0.00556051, 0.00551865,
0.00551865, 0.00547737, 0.00543571, 0.00543571, 0.00539454, 0.00535384,
0.00531342, 0.00531342, 0.00527301, 0.0052324, 0.0052324, 0.0051924, 0.00515269,
0.00511314, 0.00511314, 0.0050738, 0.00503483, 0.00503483, 0.00499588,
0.00495703, 0.0049186, 0.0049186, 0.00488038, 0.00484213, 0.00484213, 0.00480407,
0.00476675, 0.00472947, 0.00472947, 0.00469218, 0.00465501, 0.00461815,
0.00461815, 0.00458176, 0.00454524, 0.00454524, 0.00450879, 0.00447264}
```

```
Out[•]= {0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
                                                                                   1
         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ────,
                                                                                 2000
```

$$\frac{1}{2000}, \frac{1}{2000}, \frac{1}{1000}, \frac{1}{1000}, \frac{3}{2000}, \frac{3}{2000}, \frac{1}{500}, \frac{1}{500}, \frac{1}{400}, \frac{3}{2000}, \frac{3}{2000}, \frac{3}{2000}, \frac{1}{500},$$
$$\frac{1}{500}, \frac{1}{400}, \frac{1}{400}, \frac{3}{1000}, \frac{3}{1000}, \frac{7}{2000}, \frac{7}{2000}, \frac{1}{250}, \frac{1}{250}, \frac{9}{2000}, \frac{9}{2000}, \frac{1}{200}, \frac{1}{200},$$
$$\frac{1}{200}, \frac{11}{2000}, \frac{11}{2000}, \frac{3}{500}, \frac{3}{500}, \frac{13}{2000}, \frac{13}{2000}, \frac{7}{1000}, \frac{7}{1000}, \frac{7}{1000}, \frac{3}{400}, \frac{3}{400}, \frac{1}{125},$$
$$\frac{1}{125}, \frac{1}{125}, \frac{17}{2000}, \frac{17}{2000}, \frac{9}{1000}, \frac{9}{1000}, \frac{9}{1000}, \frac{19}{2000}, \frac{19}{2000}, \frac{1}{100}, \frac{1}{100}, \frac{1}{100}, \frac{1}{100},$$
$$\frac{1}{100}, \frac{21}{2000}, \frac{21}{2000}, \frac{11}{1000}, \frac{11}{1000}, \frac{11}{1000}, \frac{23}{2000}, \frac{23}{2000}, \frac{23}{2000}, \frac{3}{250}, \frac{3}{250}, \frac{1}{80}, \frac{1}{80},$$
$$\frac{1}{80}, \frac{13}{1000}, \frac{13}{1000}, \frac{13}{1000}, \frac{27}{2000}, \frac{27}{2000}, \frac{7}{500}, \frac{7}{500}, \frac{7}{500}, \frac{29}{2000}, \frac{29}{2000}, \frac{3}{200}, \frac{3}{200},$$
$$\frac{3}{200}, \frac{31}{2000}, \frac{31}{2000}, \frac{31}{2000}, \frac{2}{125}, \frac{2}{125}, \frac{33}{2000}, \frac{33}{2000}, \frac{33}{2000}, \frac{17}{1000}, \frac{17}{1000}, \frac{17}{1000}, \frac{7}{400},$$
$$\frac{7}{400}, \frac{7}{400}, \frac{9}{500}, \frac{9}{500}, \frac{9}{500}, \frac{37}{2000}, \frac{37}{2000}, \frac{19}{1000}, \frac{19}{1000}, \frac{19}{1000}, \frac{39}{2000}, \frac{39}{2000}, \frac{39}{2000},$$
$$\frac{1}{50}, \frac{1}{50}, \frac{1}{50}, \frac{41}{2000}, \frac{41}{2000}, \frac{41}{2000}, \frac{21}{1000}, \frac{21}{1000}, \frac{21}{1000}, \frac{43}{2000}, \frac{43}{2000}, \frac{11}{500}, \frac{11}{500},$$
$$\frac{11}{500}, \frac{9}{400}, \frac{9}{400}, \frac{9}{400}, \frac{9}{400}, \frac{9}{400}, \frac{9}{400}, \frac{9}{400}, \frac{23}{1000}, \frac{23}{1000}, \frac{23}{1000}, \frac{47}{2000}, \frac{47}{2000},$$
$$\frac{47}{2000}, \frac{3}{125}, \frac{3}{125}, \frac{3}{125}, \frac{49}{2000}, \frac{49}{2000}, \frac{49}{2000}, \frac{1}{40}, \frac{1}{40}, \frac{1}{40}, \frac{51}{2000}, \frac{51}{2000}, \frac{51}{2000},$$
$$\frac{13}{500}, \frac{13}{500}, \frac{13}{500}, \frac{53}{2000}, \frac{53}{2000}, \frac{53}{2000}, \frac{27}{1000}, \frac{27}{1000}, \frac{27}{1000}, \frac{11}{400}, \frac{11}{400}, \frac{11}{400}, \frac{7}{250},$$
$$\frac{7}{250}, \frac{7}{250}, \frac{57}{2000}, \frac{57}{2000}, \frac{57}{2000}, \frac{57}{2000}, \frac{29}{1000}, \frac{29}{1000}, \frac{53}{2000}, \frac{53}{2000}, \frac{53}{2000}, \frac{27}{1000}, \frac{27}{1000},$$
$$\frac{27}{1000}, \frac{53}{2000}, \frac{53}{2000}, \frac{53}{2000}, \frac{27}{1000}, \frac{27}{1000}, \frac{27}{1000}, \frac{11}{400}, \frac{11}{400}, \frac{11}{400}, \frac{7}{250}, \frac{7}{250},$$
$$\frac{7}{250}, \frac{57}{2000}, \frac{57}{2000}, \frac{57}{2000}, \frac{29}{1000}, \frac{29}{1000}, \frac{29}{1000}, \frac{59}{2000}, \frac{59}{2000}, \frac{59}{2000}, \frac{59}{2000}, \frac{3}{100},$$
$$\frac{3}{100}, \frac{3}{100}, \frac{61}{2000}, \frac{61}{2000}, \frac{61}{2000}, \frac{31}{1000}, \frac{31}{1000}, \frac{31}{1000}, \frac{63}{2000}, \frac{63}{2000}, \frac{63}{2000}, \frac{4}{125},$$
$$\frac{4}{125}, \frac{4}{125}, \frac{13}{400}, \frac{13}{400}, \frac{13}{400}, \frac{13}{400}, \frac{33}{1000}, \frac{33}{1000}, \frac{33}{1000}, \frac{67}{2000}, \frac{67}{2000}, \frac{67}{2000}, \frac{17}{500},$$
$$\frac{17}{500}, \frac{17}{500}, \frac{69}{2000}, \frac{69}{2000}, \frac{69}{2000}, \frac{7}{200}, \frac{7}{200}, \frac{7}{200}, \frac{7}{200}, \frac{71}{2000}, \frac{71}{2000}, \frac{71}{2000}, \frac{9}{250},$$
$$\frac{9}{250}, \frac{9}{250}, \frac{9}{250}, \frac{73}{2000}, \frac{73}{2000}, \frac{73}{2000}, \frac{73}{2000}, \frac{37}{1000}, \frac{37}{1000}, \frac{37}{1000}, \frac{37}{1000}, \frac{3}{80}, \frac{3}{80},$$
$$\frac{3}{80}, \frac{19}{500}, \frac{19}{500}, \frac{19}{500}, \frac{77}{2000}, \frac{77}{2000}, \frac{77}{2000}, \frac{77}{2000}, \frac{39}{1000}, \frac{39}{1000}, \frac{39}{1000}, \frac{79}{2000}, \frac{79}{2000},$$
$$\frac{79}{2000}, \frac{1}{25}, \frac{1}{25}, \frac{1}{25}, \frac{81}{2000}, \frac{81}{2000}, \frac{81}{2000}, \frac{81}{2000}, \frac{41}{1000}, \frac{41}{1000}, \frac{41}{1000}, \frac{83}{2000}, \frac{83}{2000},$$
$$\frac{83}{2000}, \frac{21}{500}, \frac{21}{500}, \frac{21}{500}, \frac{21}{500}, \frac{17}{400}, \frac{17}{400}, \frac{17}{400}, \frac{43}{1000}, \frac{43}{1000}, \frac{43}{1000}, \frac{87}{2000}, \frac{87}{2000},$$
$$\frac{87}{2000}, \frac{87}{2000}, \frac{11}{250}, \frac{11}{250}, \frac{11}{250}, \frac{89}{2000}, \frac{89}{2000}, \frac{89}{2000}, \frac{89}{2000}, \frac{9}{200}, \frac{9}{200}, \frac{9}{200}, \frac{91}{2000},$$

$\frac{91}{2000}, \frac{91}{2000}, \frac{91}{2000}, \frac{23}{500}, \frac{23}{500}, \frac{23}{500}, \frac{93}{2000}, \frac{93}{2000}, \frac{93}{2000}, \frac{93}{2000}, \frac{91}{2000}, \frac{23}{500}, \frac{23}{500},$
$\frac{23}{500}, \frac{93}{2000}, \frac{93}{2000}, \frac{23}{500}, \frac{93}{2000}, \frac{93}{2000}, \frac{93}{2000}, \frac{93}{2000}, \frac{47}{1000}, \frac{47}{1000}, \frac{47}{1000}, \frac{19}{400},$
$\frac{19}{400}, \frac{19}{400}, \frac{19}{400}, \frac{6}{125}, \frac{6}{125}, \frac{6}{125}, \frac{97}{2000}, \frac{97}{2000}, \frac{97}{2000}, \frac{49}{1000}, \frac{49}{1000}, \frac{49}{1000}, \frac{49}{1000},$
$\frac{99}{2000}, \frac{99}{2000}, \frac{99}{2000}, \frac{1}{20}, \frac{1}{20}, \frac{1}{20}, \frac{1}{20}, \frac{101}{2000}, \frac{101}{2000}, \frac{101}{2000}, \frac{51}{1000}, \frac{51}{1000}, \frac{51}{1000},$
$\frac{51}{1000}, \frac{103}{2000}, \frac{103}{2000}, \frac{103}{2000}, \frac{13}{250}, \frac{13}{250}, \frac{13}{250}, \frac{13}{250}, \frac{21}{400}, \frac{21}{400}, \frac{21}{400}, \frac{53}{1000}, \frac{53}{1000},$
$\frac{53}{1000}, \frac{53}{1000}, \frac{107}{2000}, \frac{107}{2000}, \frac{107}{2000}, \frac{107}{2000}, \frac{27}{500}, \frac{27}{500}, \frac{27}{500}, \frac{109}{2000}, \frac{109}{2000}, \frac{109}{2000}\}$

Out[●]= $\{\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$
$\frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16}, \frac{1}{16},$ 0.0623718, 0.06176, 0.0611579,
0.0605637, 0.0599749, 0.0593943, 0.0588237, 0.0582594, 0.0577041, 0.0571553,
0.0566131, 0.0560759, 0.0555477, 0.0550261, 0.0545114, 0.0540034, 0.0534994,
0.0529995, 0.052503, 0.0520143, 0.0515305, 0.0510532, 0.0505811, 0.0501128,
0.0496498, 0.0491917, 0.0487375, 0.0482867, 0.0478415, 0.0474002, 0.0469625,
0.0465273, 0.0460974, 0.0456711, 0.0452489, 0.0448338, 0.044423, 0.044015,
0.0436112, 0.0432134, 0.0428186, 0.0424283, 0.0420398, 0.0416543, 0.0412705,
0.0408903, 0.0405133, 0.0401397, 0.039769, 0.0394004, 0.0399004, 0.0395351,
0.0391733, 0.0396733, 0.0393163, 0.0398163, 0.0394621, 0.0399621, 0.0396116,
0.0401116, 0.0380946, 0.037774, 0.0374596, 0.0379596, 0.0376508, 0.0381508,
0.0378421, 0.0383421, 0.0380347, 0.0385347, 0.0382238, 0.0387238, 0.0384141,
0.0389141, 0.0386068, 0.0391068, 0.0388012, 0.0384971, 0.0389971, 0.0386939,
0.0391939, 0.0388932, 0.0393932, 0.0390967, 0.0395967, 0.0393028, 0.0390111,
0.0395111, 0.0392224, 0.0397224, 0.0394351, 0.0391507, 0.0396507, 0.0393698,
0.0398698, 0.0395916, 0.0393159, 0.0398159, 0.0395418, 0.0400418, 0.0397703,
0.039504, 0.0392414, 0.038982, 0.039482, 0.0392266, 0.0397266, 0.0394723,
0.0392205, 0.0397205, 0.0394711, 0.0392242, 0.0397242, 0.0394794, 0.0399794,
0.0397366, 0.039495, 0.039995, 0.0397562, 0.039519, 0.040019, 0.0397844,
0.0402844, 0.0400522, 0.0398216, 0.0403216, 0.0400922, 0.0405922, 0.0403648,
0.0401398, 0.0406398, 0.0404168, 0.0401954, 0.0406954, 0.0404759, 0.0409759,
0.0407568, 0.0405401, 0.0410401, 0.0408258, 0.0406134, 0.0411134, 0.0409028,
0.0406934, 0.0411934, 0.040985, 0.040779, 0.041279, 0.0410742, 0.0415742,
0.0413717, 0.0411716, 0.0416716, 0.0414714, 0.0412737, 0.0417737, 0.0415778,

```
0.0413837, 0.0418837, 0.041691, 0.0414997, 0.0419997, 0.0418094, 0.0416195,
0.0421195, 0.0419307, 0.0424307, 0.0422434, 0.0420581, 0.0425581, 0.0423742,
0.0421917, 0.0420142, 0.0418399, 0.0416673, 0.0414976, 0.0419976, 0.04183,
0.0416641, 0.0421641, 0.0419993, 0.0418354, 0.0423354, 0.042173, 0.0420124,
0.0425124, 0.0423519, 0.0421915, 0.0426915, 0.0425319, 0.0423732, 0.0428732,
0.0427169, 0.0425614, 0.0430614, 0.0429069, 0.042753, 0.043253, 0.0431007,
0.0429493, 0.0434493, 0.0432995, 0.0431512, 0.0436512, 0.0435032, 0.0433563,
0.0438563, 0.0437108, 0.0435669, 0.0440669, 0.0439235, 0.0437814, 0.0436401,
0.0441401, 0.0439996, 0.0407602, 0.0406565, 0.0405538, 0.0410538, 0.0409509,
0.0408487, 0.0401471, 0.0400473, 0.0399482, 0.0404482, 0.0403492, 0.0402504,
0.0407504, 0.0406533, 0.0405567, 0.0410567, 0.0409605, 0.0408649, 0.0413649,
0.0412699, 0.0411754, 0.0416754, 0.0415821, 0.0414891, 0.0419891, 0.0418962,
0.0418038, 0.0417125, 0.0422125, 0.0421218, 0.0420319, 0.0425319, 0.0424424,
0.0423534, 0.0428534, 0.0427648, 0.0426768, 0.0431768, 0.0430894, 0.0430025,
0.0435025, 0.0434157, 0.0433299, 0.0438299, 0.0437446, 0.0436601, 0.0435762,
0.0440762, 0.0439925, 0.0439089, 0.0444089, 0.0443263, 0.0442445, 0.0447445,
0.0446629, 0.0445815, 0.0450815, 0.0450011, 0.044921, 0.045421, 0.0453414,
0.0452626, 0.0451839, 0.0456839, 0.0456052, 0.0455267, 0.0460267, 0.0459491,
0.0458718, 0.045796, 0.046296, 0.0462212, 0.0461469, 0.0460731, 0.0465731,
0.0465002, 0.046428, 0.0463562, 0.0468562, 0.0467847, 0.0467135, 0.0472135,
0.0471428, 0.0470734, 0.0475734, 0.0475038, 0.0474343, 0.0473654, 0.0478654,
0.0477973, 0.0477294, 0.0482294, 0.0481618, 0.0480945, 0.0485945, 0.0485274,
0.0484609, 0.0489609, 0.048895, 0.0488295, 0.0487637, 0.0492637, 0.0491981,
0.0491332, 0.0496332, 0.0495685, 0.0495044, 0.0500044, 0.0499408, 0.0498773,
0.0498141, 0.0503141, 0.0502514, 0.0501893, 0.0506893, 0.0506274, 0.0505656,
0.0510656, 0.0510039, 0.0509433, 0.0508831, 0.0513831, 0.051323, 0.0512632,
0.0517632, 0.0517038, 0.0516445, 0.0515857, 0.0520857, 0.0520276, 0.0519696,
0.0524696, 0.0524117, 0.0523543, 0.0522976, 0.0527976, 0.0527413, 0.0526846,
0.0531846, 0.0531284, 0.0530728, 0.0530174, 0.0518698, 0.0523698, 0.052324,
0.0522786, 0.0527786, 0.0527333, 0.0521452, 0.0526452, 0.0526032, 0.0525617,
0.0525204, 0.0530204, 0.0529794, 0.0529383, 0.0534383, 0.0533972, 0.0533567,
0.0533156, 0.0538156, 0.0537734, 0.0537303, 0.0542303, 0.0541878, 0.0541453,
0.0546453, 0.0546028, 0.0545605, 0.0545186, 0.0550186, 0.0549774, 0.0549357,
0.0554357, 0.0553945, 0.0553538, 0.0553134, 0.0558134, 0.055773, 0.0557324,
0.0562324, 0.0561924, 0.0561527, 0.0561131, 0.0566131, 0.0565738, 0.0565348,
0.0570348, 0.0569959, 0.056957, 0.0569186, 0.0574186, 0.0573804, 0.0573421,
0.0578421, 0.0578041, 0.0577668, 0.0577295, 0.0582295, 0.0581922, 0.058155,
0.0581181, 0.0586181, 0.0585818, 0.0585452, 0.0590452, 0.0590088, 0.0589726}
```

In[•]:= **Length[priceupdate]**

Out[•]= 517

In[]:=
```
143 / 517 + 1.5
```

Out[]=
```
1.7766
```

In[]:=
```
Max[consumecity[[1 ;; 517]] - priceupdate]
```

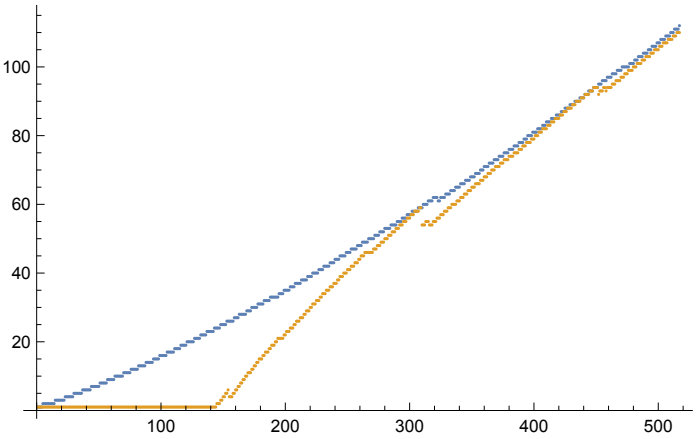
Out[]=
```
23
```

In[]:=
```
Position[consumecity[[1 ;; 517]] - priceupdate,
 Max[consumecity[[1 ;; 517]] - priceupdate]]
```

Out[]=
```
{{143}, {144}}
```

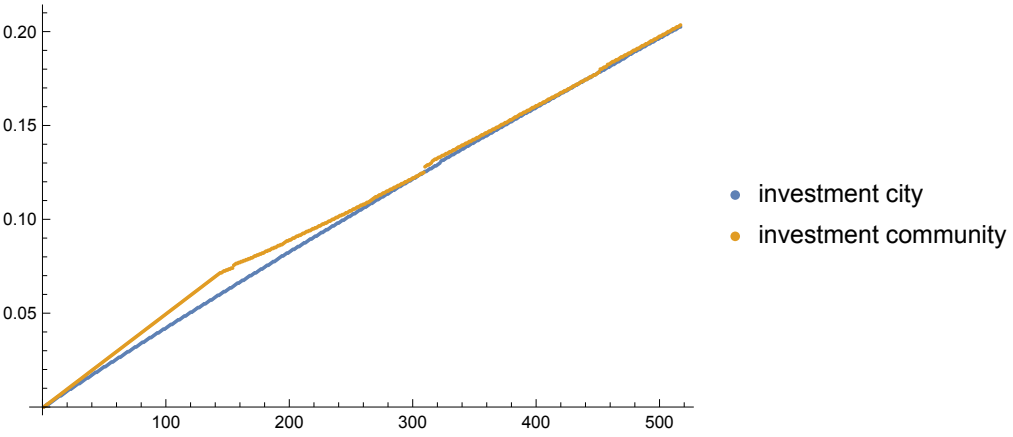
In[]:=
```
ListPlot[{consumecity[[1 ;; 517]], priceupdate}]
```

Out[]=



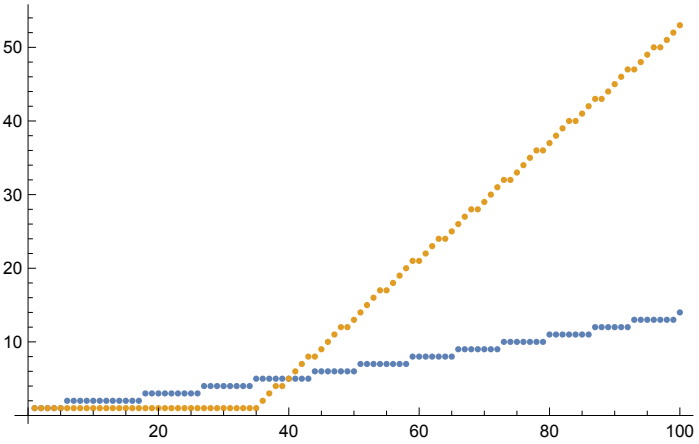
In[]:=
```
ListPlot[{wealth[[1 ;; 517]] - Table[wealth[[consumecity[[i]]]], {i, 1, 517}],
  wealth[[1 ;; 517]] - Table[wealth[[priceupdate[[i]]]], {i, 1, 517}]},
 PlotLegends → {"investment city", "investment community"}]
```

Out[]=



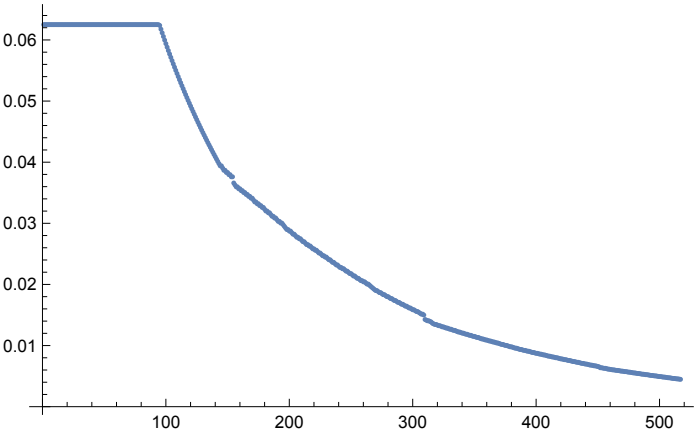
In[•]:=
```
ListPlot[{consumecity[[1 ;; 100]], priceupdate}]
```

Out[•]=



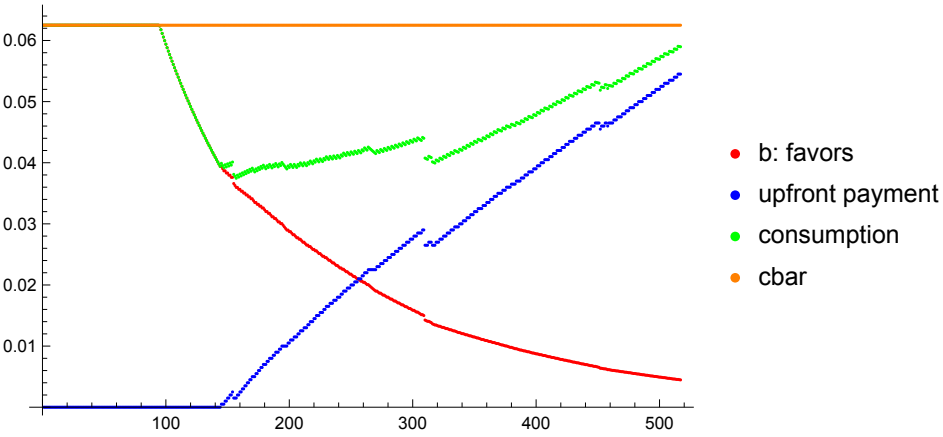
In[•]:=
```
ListPlot[bupdate]
```

Out[•]=



In[•]:=
```
ListPlot[{bupdate, pupdate, cupdate, Table[cbar, {j, 1, wsel}]},
 PlotStyle → {Red, Blue, Green, Orange},
 PlotLegends → {"b: favors", "upfront payment", "consumption", "cbar"}]
```

Out[•]=



In[•]:=
```
wtre = Max[Position[Table[wealthupdate[[j]] > wealth[[j]], {j, 1, wsel}], True]]
```

Out[•]=
```
517
```

```
In[•]:= Length[wealthupdate]

Out[•]= 517

In[•]:= {N[{wealth[[wtre]], wealthupdate[[wtre]]}]}

Out[•]= {{0.258, 0.291124}}

        (* the following is the wealth dynamics
          in the long run which was not used in the paper.)

        wupper0 = Ra[Ra[wbar]]; wupper = Ra[Ra[Ra[wbar]]]; grid = 1/2000;
        wealth = Table[w, {w, 0, wupper + grid, grid}];

In[•]:= priceupdatetotal = Flatten[
          {priceupdate, consumecity[[Length[priceupdate] + 1 ;; Length[consumecity]]],
           Table[Round[(c/grid + 1) /. NSolve[R[wealth[[i]] - c] == wealth[[i]], c][[1]]],
            {i, Length[Table[j, {j, 1, wupper0/grid}]] + 1, Length[wealth]}]}]

Out[•]= {1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
         1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
         1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
         1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
         1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 2, 2,
         3, 3, 4, 4, 5, 5, 6, 4, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 11, 11, 12,
         12, 13, 13, 14, 14, 15, 15, 15, 16, 16, 17, 17, 17, 18, 18, 19, 19, 19, 20, 20, 21,
         21, 21, 21, 21, 22, 22, 23, 23, 23, 24, 24, 24, 25, 25, 26, 26, 26, 27, 27, 27, 28,
         28, 29, 29, 29, 30, 30, 31, 31, 31, 32, 32, 32, 33, 33, 34, 34, 34, 35, 35, 35, 36,
         36, 36, 37, 37, 37, 38, 38, 39, 39, 39, 40, 40, 40, 41, 41, 41, 42, 42, 42, 43, 43,
         43, 44, 44, 45, 45, 45, 46, 46, 46, 46, 46, 46, 46, 47, 47, 47, 48, 48, 48, 49, 49,
         49, 50, 50, 50, 51, 51, 51, 52, 52, 52, 53, 53, 53, 54, 54, 54, 55, 55, 55, 56, 56,
         56, 57, 57, 57, 58, 58, 58, 58, 59, 59, 54, 54, 54, 55, 55, 55, 54, 54, 54, 55, 55,
         55, 56, 56, 56, 57, 57, 57, 58, 58, 58, 59, 59, 59, 60, 60, 60, 60, 61, 61, 61, 62,
         62, 62, 63, 63, 63, 64, 64, 64, 65, 65, 65, 66, 66, 66, 66, 67, 67, 67, 68, 68, 68,
         69, 69, 69, 70, 70, 70, 71, 71, 71, 71, 72, 72, 72, 73, 73, 73, 73, 74, 74, 74, 74,
         75, 75, 75, 75, 76, 76, 76, 77, 77, 77, 78, 78, 78, 78, 79, 79, 79, 80, 80, 80, 81,
         81, 81, 82, 82, 82, 82, 83, 83, 83, 84, 84, 84, 85, 85, 85, 85, 86, 86, 86, 87, 87,
         87, 88, 88, 88, 88, 89, 89, 89, 90, 90, 90, 90, 91, 91, 91, 92, 92, 92, 92, 93, 93,
         93, 94, 94, 94, 94, 92, 93, 93, 93, 94, 94, 93, 94, 94, 94, 94, 95, 95, 95, 96,
         96, 96, 96, 97, 97, 97, 98, 98, 98, 99, 99, 99, 99, 100, 100, 100, 101, 101, 101,
         101, 102, 102, 102, 103, 103, 103, 103, 104, 104, 104, 105, 105, 105, 105, 106,
         106, 106, 107, 107, 107, 107, 108, 108, 108, 108, 109, 109, 109, 110, 110, 110,
         112, 112, 112, 113, 113, 113, 114, 114, 114, 114, 115, 115, 115, 115, 109, 110,
         110, 110, 110, 111, 111, 111, 112, 112, 112, 113, 113, 113, 114, 114, 114, 114,
         115, 115, 115, 116, 116, 116, 117, 117, 117, 118, 118, 118, 118, 119, 119, 119,
         120, 120, 120, 121, 121, 121, 122, 122, 122, 122, 123, 123, 123, 124, 124, 124,
         125, 125, 125, 126, 126, 126, 126, 127, 127, 127, 128, 128, 128, 129, 129, 129,
```

130, 130, 130, 131, 131, 131, 131, 132, 132, 132, 133, 133, 133, 134, 134, 134,
135, 135, 135, 136, 136, 136, 136, 137, 137, 137, 138, 138, 138, 139, 139, 139,
140, 140, 140, 141, 141, 141, 141, 142, 142, 142, 143, 143, 143, 144, 144, 144,
145, 145, 145, 146, 146, 146, 147, 147, 147, 148, 148, 148, 148, 149, 149, 149,
150, 150, 150, 151, 151, 151, 152, 152, 152, 153, 153, 153, 154, 154, 154, 155,
155, 155, 155, 156, 156, 156, 157, 157, 157, 158, 158, 158, 159, 159, 159, 160,
160, 160, 161, 161, 161, 161, 162, 162, 162, 163, 163, 163, 163, 164, 164, 164,
165, 165, 165, 166, 166, 166, 167, 167, 167, 167, 168, 168, 168, 169, 169, 169,
170, 170, 170, 170, 171, 171, 171, 171, 172, 172, 172, 173, 173, 173, 174, 174,
174, 174, 175, 175, 175, 176, 176, 176, 177, 177, 177, 178, 178, 178, 178, 179,
179, 179, 180, 180, 180, 181, 181, 181, 182, 182, 182, 183, 183, 183, 183, 184,
184, 184, 185, 185, 185, 186, 186, 186, 187, 187, 187, 187, 188, 188, 188, 189,
189, 189, 190, 190, 190, 191, 191, 191, 191, 192, 192, 192, 193, 193, 193, 194,
194, 194, 194, 195, 195, 195, 196, 196, 196, 196, 197, 197, 197, 198, 198, 198,
199, 199, 199, 199, 200, 200, 200, 201, 201, 201, 202, 202, 199, 199, 199, 200,
200, 200, 201, 177, 178, 178, 179, 179, 179, 180, 180, 181, 181, 181, 182, 182,
182, 183, 183, 184, 184, 184, 185, 185, 186, 186, 186, 187, 187, 187, 188, 188,
189, 189, 189, 190, 190, 191, 191, 191, 192, 192, 192, 193, 193, 194, 194, 194,
195, 195, 196, 196, 196, 197, 197, 197, 198, 198, 199, 199, 199, 200, 200, 201,
201, 201, 202, 202, 202, 203, 203, 204, 204, 204, 205, 205, 206, 206, 206, 207,
207, 207, 208, 208, 209, 209, 209, 210, 210, 211, 211, 211, 212, 212, 212, 213,
213, 214, 214, 214, 215, 215, 215, 216, 216, 217, 217, 217, 218, 218, 219, 219,
219, 220, 220, 221, 221, 221, 222, 222, 222, 223, 223, 224, 224, 224, 225, 225,
226, 226, 226, 227, 227, 227, 228, 228, 229, 229, 229, 230, 230, 231, 231, 231,
232, 232, 232, 233, 233, 234, 234, 234, 235, 235, 236, 236, 236, 237, 237, 237,
238, 238, 239, 239, 239, 240, 240, 241, 241, 241, 242, 242, 243, 243, 243, 244,
244, 244, 245, 245, 246, 246, 246, 247, 247, 248, 248, 248, 249, 249, 249, 250,
250, 251, 251, 251, 252, 252, 253, 253, 253, 254, 254, 255, 255, 255, 256, 256,
256, 257, 257, 258, 258, 258, 259, 259, 260, 260, 260, 260, 261, 261, 261, 262,
262, 262, 263, 263, 263, 264, 264, 264, 265, 265, 265, 266, 266, 266, 267, 267,
267, 268, 268, 268, 269, 269, 269, 270, 270, 270, 271, 271, 271, 272, 272, 272,
273, 273, 273, 274, 274, 274, 275, 275, 275, 276, 276, 276, 277, 277, 277, 278,
278, 278, 279, 279, 279, 280, 280, 280, 281, 281, 281, 282, 282, 282, 283, 283,
283, 284, 284, 284, 285, 285, 285, 286, 286, 286, 287, 287, 287, 288, 288, 288,
289, 289, 289, 290, 290, 290, 291, 291, 291, 292, 292, 292, 293, 293, 293, 294,
294, 294, 295, 295, 295, 296, 296, 296, 297, 297, 297, 298, 298, 298, 299, 299,
299, 300, 300, 300, 301, 301, 301, 302, 302, 302, 303, 303, 303, 303, 304, 304,
304, 304, 305, 305, 305, 306, 306, 306, 306, 307, 307, 307, 307, 308, 308, 308,
309, 309, 309, 309, 310, 310, 310, 310, 311, 311, 312, 312, 312, 312, 313, 313,
313, 313, 314, 314, 314, 315, 315, 315, 315, 316, 316, 316, 317, 317, 317, 317,
318, 318, 318, 319, 319, 319, 319, 320, 320, 320, 320, 321, 321, 321, 322, 322,
322, 322, 323, 323, 323, 324, 324, 324, 324, 325, 325, 325, 326, 326, 326, 326,
327, 327, 327, 327, 243, 243, 244, 244, 245, 245, 246, 246, 247, 247, 248, 249,
249, 245, 245, 246, 246, 247, 247, 248, 248, 249, 249, 250, 250, 251, 251, 252,

253, 253, 254, 254, 255, 255, 256, 256, 257, 257, 258, 258, 259, 259, 260, 260,
261, 261, 262, 262, 263, 263, 264, 265, 265, 266, 266, 267, 267, 268, 268, 269,
269, 270, 270, 271, 271, 272, 272, 273, 273, 274, 274, 275, 275, 276, 276, 277,
277, 278, 279, 279, 280, 280, 280, 281, 282, 282, 283, 283, 284, 284, 285, 285,
286, 286, 287, 287, 288, 288, 289, 289, 290, 290, 291, 291, 292, 292, 293, 293,
294, 294, 295, 295, 296, 296, 297, 298, 298, 299, 299, 300, 300, 301, 301, 302,
302, 303, 303, 304, 304, 305, 305, 306, 306, 307, 307, 308, 308, 309, 309, 310,
310, 311, 311, 312, 312, 313, 313, 314, 314, 315, 315, 316, 316, 317, 317, 318,
318, 319, 319, 320, 320, 321, 321, 322, 322, 323, 323, 324, 324, 325, 325, 326,
326, 327, 327, 328, 328, 329, 329, 330, 330, 331, 331, 332, 333, 333, 334, 334,
334, 335, 336, 336, 337, 337, 338, 338, 338, 339, 340, 340, 341, 341, 341, 342,
342, 343, 344, 344, 345, 345, 346, 346, 347, 347, 348, 348, 349, 349, 350, 350,
351, 351, 352, 352, 353, 353, 354, 354, 355, 355, 356, 356, 357, 357, 358, 358,
358, 359, 360, 360, 361, 361, 362, 362, 362, 363, 364, 364, 365, 365, 365, 366,
366, 367, 368, 368, 368, 369, 369, 369, 370, 370, 370, 370, 371, 371, 371, 372,
372, 372, 373, 373, 373, 374, 374, 374, 374, 375, 375, 375, 376, 376, 376, 377,
377, 377, 378, 378, 378, 378, 379, 379, 379, 380, 380, 380, 381, 381, 381, 381,
382, 382, 382, 383, 383, 383, 384, 384, 384, 385, 385, 385, 385, 386, 386, 386,
387, 387, 387, 388, 388, 388, 388, 389, 389, 389, 390, 390, 390, 391, 391, 391,
391, 392, 392, 392, 393, 393, 393, 394, 394, 394, 395, 395, 395, 396, 396, 396,
396, 397, 397, 397, 398, 398, 398, 399, 399, 399, 399, 400, 400, 400, 401, 401,
401, 402, 402, 402, 402, 403, 403, 403, 404, 404, 404, 405, 405, 405, 405, 406,
406, 406, 407, 407, 407, 408, 408, 408, 409, 409, 409, 409, 410, 410, 410, 411,
411, 411, 412, 412, 412, 412, 413, 413, 413, 414, 414, 414, 415, 415, 415, 415,
416, 416, 416, 417, 417, 417, 418, 418, 418, 418, 419, 419, 419, 420, 420, 420,
421, 421, 421, 421, 422, 422, 422, 423, 423, 423, 424, 424, 424, 424, 425, 425,
425, 426, 426, 426, 427, 427, 427, 427, 428, 428, 428, 429, 429, 429, 430, 430,
430, 430, 431, 431, 431, 432, 432, 432, 433, 433, 433, 433, 434, 434, 434, 435,
435, 435, 436, 436, 436, 437, 437, 437, 437, 438, 438, 438, 439, 439, 439, 439,
440, 440, 440, 441, 441, 441, 441, 442, 442, 442, 443, 443, 443, 444, 444, 444,
444, 445, 445, 445, 445, 446, 446, 446, 447, 447, 447, 447, 448, 448, 448, 449,
449, 449, 450, 450, 450, 450, 451, 451, 451, 452, 452, 452, 452, 453, 453, 453,
453, 454, 454, 454, 455, 455, 455, 455, 456, 456, 456, 457, 457, 457, 457, 458,
458, 458, 459, 459, 459, 459, 460, 460, 460, 461, 461, 461, 461, 462, 462, 462,
463, 463, 463, 463, 464, 464, 464, 464, 465, 465, 465, 466, 466, 466, 466, 467,
467, 467, 467, 468, 468, 468, 468, 469, 469, 469, 469, 470, 470, 470, 471, 471,
471, 471, 472, 472, 472, 472, 473, 473, 473, 207, 208, 209, 210, 211, 212, 213,
214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229,
230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245,
246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261,
262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277,
278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293,
294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309,
310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325,

326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341,
342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357,
358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373,
374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389,
390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405,
406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421,
422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437,
438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453,
454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469,
470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485,
486, 487, 488, 489, 490, 491, 492, 493, 493, 494, 494, 494, 494, 495, 495, 495,
496, 496, 496, 497, 497, 497, 498, 498, 498, 499, 499, 499, 499, 500, 500, 500,
501, 501, 501, 502, 502, 502, 503, 503, 503, 503, 504, 504, 504, 505, 505, 505,
506, 506, 506, 506, 507, 507, 508, 508, 508, 508, 509, 509, 509, 510, 510, 510,
510, 511, 511, 511, 512, 512, 512, 513, 513, 513, 513, 514, 514, 515, 515, 515,
515, 516, 516, 516, 517, 517, 517, 517, 518, 518, 518, 519, 519, 519, 520, 520,
520, 520, 521, 521, 521, 522, 522, 522, 523, 523, 523, 523, 524, 524, 524, 525,
525, 525, 526, 526, 526, 527, 527, 527, 527, 528, 528, 528, 529, 529, 529, 529,
530, 530, 530, 531, 531, 531, 532, 532, 532, 533, 533, 533, 534, 534, 534, 534,
535, 535, 535, 536, 536, 536, 536, 537, 537, 537, 538, 538, 538, 538, 539, 539,
539, 540, 540, 540, 541, 541, 541, 542, 542, 542, 542, 543, 543, 543, 544, 544,
544, 545, 545, 545, 545, 546, 546, 546, 546, 547, 547, 548, 548, 548, 548, 549,
549, 549, 550, 550, 550, 550, 551, 551, 551, 552, 552, 552, 553, 553, 553, 553,
554, 554, 554, 555, 555, 555, 556, 556, 556, 556, 557, 557, 557, 558, 558, 558,
558, 559, 559, 559, 560, 560, 560, 560, 561, 561, 561, 562, 562, 562, 563, 563,
563, 564, 564, 564, 564, 565, 565, 565, 566, 566, 566, 566, 567, 567, 567, 568,
568, 568, 568, 569, 569, 569, 570, 570, 570, 570, 571, 571, 571, 572, 572, 572,
573, 573, 573, 573, 574, 574, 574, 575, 575, 575, 576, 576, 576, 576, 577, 577,
577, 578, 578, 578, 578, 579, 579, 579, 580, 580, 580, 580, 581, 581, 581, 581,
582, 582, 582, 583, 583, 583, 584, 584, 584, 585, 585, 585, 586, 586, 586, 586,
587, 587, 587, 587, 588, 588, 588, 589, 589, 589, 589, 590, 590, 590, 591, 591,
591, 591, 592, 592, 592, 593, 593, 593, 593, 594, 594, 594, 595, 595, 595, 596,
596, 596, 597, 597, 597, 597, 598, 598, 598, 599, 599, 599, 599, 600, 600, 600,
601, 601, 601, 601, 602, 602, 602, 602, 603, 603, 603, 604, 604, 604, 604, 605,
605, 605, 606, 606, 606, 606, 607, 607, 607, 608, 608, 608, 609, 609, 609, 610,
610, 610, 610, 611, 611, 611, 611, 611, 612, 612, 612, 612, 613, 613, 613, 613,
614, 614, 614, 614, 615, 615, 615, 615, 615, 616, 616, 616, 616, 617, 617, 617,
618, 618, 618, 618, 618, 619, 619, 619, 619, 620, 620, 620, 620, 621, 621, 621,
621, 621, 622, 622, 622, 622, 623, 623, 623, 623, 624, 624, 624, 624, 625, 625,
625, 625, 626, 626, 626, 626, 626, 627, 627, 627, 627, 628, 628, 628, 628, 629,
629, 629, 629, 630, 630, 630, 630, 630, 631, 631, 631, 631, 632, 632, 632, 632,
633, 633, 633, 633, 634, 634, 634, 634, 635, 635, 635, 635, 635, 636, 636, 636,
636, 637, 637, 637, 637, 638, 638, 638, 638, 639, 639, 639, 639, 639, 640, 640,
640, 640, 641, 641, 641, 641, 642, 642, 642, 642, 643, 643, 643, 643, 644, 644,

644, 644, 644, 645, 645, 645, 645, 646, 646, 646, 646, 647, 647, 647, 647, 648,
648, 648, 648, 649, 649, 649, 649, 649, 650, 650, 650, 650, 651, 651, 651, 651,
652, 652, 652, 652, 653, 653, 653, 653, 653, 654, 654, 654, 654, 655, 655, 655,
655, 656, 656, 656, 656, 657, 657, 657, 657, 658, 658, 658, 658, 658, 659, 659,
659, 659, 660, 660, 660, 660, 661, 661, 661, 661, 661, 662, 662, 662, 662, 663,
663, 663, 663, 664, 664, 664, 664, 665, 665, 665, 665, 665, 666, 666, 666, 666,
667, 667, 667, 667, 668, 668, 668, 668, 669, 669, 669, 669, 670, 670, 670, 670,
670, 671, 671, 671, 671, 672, 672, 672, 672, 673, 673, 673, 673, 674, 674, 674,
674, 675, 675, 675, 675, 675, 676, 676, 676, 676, 677, 677, 677, 677, 678, 678,
678, 678, 679, 679, 679, 679, 679, 680, 680, 680, 680, 681, 681, 681, 681, 682,
682, 682, 682, 683, 683, 683, 683, 683, 684, 684, 684, 684, 685, 685, 685, 685,
686, 686, 686, 686, 687, 687, 687, 687, 687, 688, 688, 688, 688, 689, 689, 689,
689, 690, 690, 690, 690, 691, 691, 691, 691, 691, 692, 692, 692, 692, 693, 693,
693, 693, 694, 694, 694, 694, 695, 695, 695, 695, 695, 696, 696, 696, 696, 697,
697, 697, 697, 698, 698, 698, 698, 699, 699, 699, 699, 699, 700, 700, 700, 700,
701, 701, 701, 701, 702, 702, 702, 702, 703, 703, 703, 703, 704, 704, 704, 704,
704, 705, 705, 705, 705, 706, 706, 706, 706, 707, 707, 707, 707, 708, 708, 708,
708, 708, 709, 709, 709, 709, 709, 710, 710, 710, 710, 711, 711, 711, 711, 712,
712, 712, 712, 713, 713, 713, 713, 713, 714, 714, 714, 714, 715, 715, 715, 715,
716, 716, 716, 716, 716, 717, 717, 717, 717, 718, 718, 718, 718, 719, 719, 719,
719, 719, 720, 720, 720, 720, 721, 721, 721, 721, 722, 722, 722, 722, 723, 723,
723, 723, 723, 724, 724, 724, 724, 725, 725, 725, 725, 726, 726, 726, 726, 726,
727, 727, 727, 727, 728, 728, 728, 728, 729, 729, 729, 729, 729, 730, 730, 730,
730, 731, 731, 697, 697, 697, 698, 698, 698, 698, 698, 699, 699, 699, 699, 699,
700, 700, 700, 700, 700, 701, 701, 701, 701, 701, 702, 702, 702, 702, 702, 703,
703, 703, 703, 703, 704, 704, 704, 704, 704, 705, 705, 705, 705, 705, 706, 706,
706, 706, 706, 707, 707, 707, 707, 707, 708, 708, 708, 708, 708, 709, 709, 709,
709, 709, 710, 710, 710, 710, 710, 711, 711, 711, 711, 711, 712, 712, 712, 712,
712, 713, 713, 713, 713, 713, 714, 714, 714, 714, 714, 715, 715, 715, 715, 715,
716, 716, 716, 716, 716, 717, 717, 717, 717, 717, 718, 718, 718, 718, 718, 719,
719, 719, 719, 719, 720, 720, 720, 720, 720, 721, 721, 721, 721, 721, 722, 722,
722, 722, 722, 723, 723, 723, 723, 723, 724, 724, 724, 724, 724, 725, 725, 725,
725, 725, 726, 726, 726, 726, 726, 727, 727, 727, 727, 727, 728, 728, 728, 728,
728, 729, 729, 729, 729, 729, 730, 730, 730, 730, 730, 731, 731, 731, 731, 731,
732, 732, 732, 732, 732, 733, 733, 733, 733, 733, 734, 734, 734, 734, 734, 735,
735, 735, 735, 735, 736, 736, 736, 736, 736, 737, 737, 737, 737, 737, 738, 738,
738, 738, 738, 739, 739, 739, 739, 739, 740, 740, 740, 740, 740, 741, 741, 741,
741, 741, 742, 742, 742, 742, 742, 743, 743, 743, 743, 743, 744, 744, 744, 744,
744, 745, 745, 745, 745, 745, 746, 746, 746, 746, 746, 747, 747, 747, 747, 747,
748, 748, 748, 748, 748, 749, 749, 749, 749, 749, 750, 750, 750, 750, 750, 751,
751, 751, 751, 751, 752, 752, 752, 752, 752, 753, 753, 753, 753, 753, 754, 754,
754, 754, 754, 755, 755, 755, 755, 755, 756, 756, 756, 756, 756, 757, 757, 757,
757, 757, 758, 758, 758, 758, 758, 759, 759, 759, 759, 759, 760, 760, 760, 760,
760, 761, 761, 761, 761, 761, 762, 762, 762, 762, 762, 763, 763, 763, 763, 763,

764, 764, 764, 764, 764, 765, 765, 765, 765, 765, 766, 766, 766, 766, 766, 767,
767, 767, 767, 767, 768, 768, 768, 768, 768, 769, 769, 769, 769, 769, 770, 770,
770, 770, 770, 771, 771, 771, 771, 771, 772, 772, 772, 772, 772, 773, 773, 773,
773, 773, 774, 774, 774, 774, 774, 775, 775, 775, 775, 775, 776, 776, 776, 776,
776, 777, 777, 777, 777, 777, 778, 778, 778, 778, 778, 779, 779, 779, 779, 779,
780, 780, 780, 780, 780, 781, 781, 781, 781, 781, 782, 782, 782, 782, 782, 783,
783, 783, 783, 783, 784, 784, 784, 784, 784, 785, 785, 785, 785, 785, 786, 786,
786, 786, 786, 787, 787, 787, 787, 787, 788, 788, 788, 788, 788, 789, 789, 789,
789, 789, 790, 790, 790, 790, 790, 791, 791, 791, 791, 791, 792, 792, 792, 792,
792, 793, 793, 793, 793, 793, 794, 794, 794, 794, 794, 795, 795, 795, 795, 795,
796, 796, 796, 796, 796, 797, 797, 797, 797, 797, 798, 798, 798, 798, 798, 799,
799, 799, 799, 799, 800, 800, 800, 800, 800, 801, 801, 801, 801, 801, 802, 802,
802, 802, 802, 803, 803, 803, 803, 803, 804, 804, 804, 804, 804, 805, 805, 805,
805, 805, 806, 806, 806, 806, 806, 807, 807, 807, 807, 807, 808, 808, 808, 808,
808, 809, 809, 809, 809, 809, 810, 810, 810, 810, 810, 811, 811, 811, 811, 811,
812, 812, 812, 812, 812, 813, 813, 813, 813, 813, 814, 814, 814, 814, 814, 815,
815, 815, 815, 815, 816, 816, 816, 816, 816, 817, 817, 817, 817, 817, 818, 818,
818, 818, 818, 819, 819, 819, 819, 819, 820, 820, 820, 820, 820, 821, 821, 821,
821, 821, 822, 822, 822, 822, 822, 823, 823, 823, 823, 823, 824, 824, 824, 824,
824, 825, 825, 825, 825, 825, 826, 826, 826, 826, 826, 827, 827, 827, 827, 827,
828, 828, 828, 828, 828, 829, 829, 829, 829, 829, 830, 830, 830, 830, 830, 831,
831, 831, 831, 831, 832, 832, 832, 832, 832, 833, 833, 833, 833, 833, 834, 834,
834, 834, 834, 835, 835, 835, 835, 835, 836, 836, 836, 836, 836, 837, 837, 837,
837, 837, 838, 838, 838, 838, 838, 839, 839, 839, 839, 839, 840, 840, 840, 840,
840, 841, 841, 841, 841, 841, 842, 842, 842, 842, 842, 843, 843, 843, 843, 843,
844, 844, 844, 844, 844, 845, 845, 845, 845, 845, 846, 846, 846, 846, 846, 847,
847, 847, 847, 847, 848, 848, 848, 848, 848, 849, 849, 849, 849, 849, 850, 850,
850, 850, 850, 851, 851, 851, 851, 851, 852, 852, 852, 852, 852, 853, 853, 853,
853, 853, 854, 854, 854, 854, 854, 855, 855, 855, 855, 855, 856, 856, 856, 856,
856, 857, 857, 857, 857, 857, 858, 858, 858, 858, 858, 859, 859, 859, 859, 859,
860, 860, 860, 860, 860, 861, 861, 861, 861, 861, 862, 862, 862, 862, 862, 863,
863, 863, 863, 863, 864, 864, 864, 864, 864, 865, 865, 865, 865, 865, 866, 866,
866, 866, 866, 867, 867, 867, 867, 867, 868, 868, 868, 868, 868, 869, 869, 869,
869, 869, 870, 870, 870, 870, 870, 871, 871, 871, 871, 871, 872, 872, 872, 872,
872, 873, 873, 873, 873, 873, 874, 874, 874, 874, 874, 875, 875, 875, 875, 875,
876, 876, 876, 876, 876, 877, 877, 877, 877, 877, 878, 878, 878, 878, 878, 879,
879, 879, 879, 879, 880, 880, 880, 880, 880, 881, 881, 881, 881, 881, 882, 882,
882, 882, 882, 883, 883, 883, 883, 883, 884, 884, 884, 884, 884, 885, 885, 885,
885, 885, 886, 886, 886, 886, 886, 887, 887, 887, 887, 887, 888, 888, 888, 888,
888, 889, 889, 889, 889, 889, 890, 890, 890, 890, 890, 891, 891, 891, 891, 891,
892, 892, 892, 892, 892, 893, 893, 893, 893, 893, 894, 894, 894, 894, 894, 895,
895, 895, 895, 895, 896, 896, 896, 896, 896, 897, 897, 897, 897, 897, 898, 898,
898, 898, 898, 899, 899, 899, 899, 899, 900, 900, 900, 900, 900, 901, 901, 901,
901, 901, 902, 902, 902, 902, 902, 903, 903, 903, 903, 903, 904, 904, 904, 904,

904, 905, 905, 905, 905, 905, 906, 906, 906, 906, 906, 907, 907, 907, 907, 907,
908, 908, 908, 908, 908, 909, 909, 909, 909, 909, 910, 910, 910, 910, 910, 911,
911, 911, 911, 911, 912, 912, 912, 912, 912, 913, 913, 913, 913, 913, 914, 914,
914, 914, 914, 915, 915, 915, 915, 915, 916, 916, 916, 916, 916, 917, 917, 917,
917, 917, 918, 918, 918, 918, 918, 919, 919, 919, 919, 919, 920, 920, 920, 920,
920, 921, 921, 921, 921, 921, 922, 922, 922, 922, 922, 923, 923, 923, 923, 923,
924, 924, 924, 924, 924, 925, 925, 925, 925, 925, 926, 926, 926, 926, 926, 927,
927, 927, 927, 927, 928, 928, 928, 928, 928, 929, 929, 929, 929, 929, 930, 930,
930, 930, 930, 931, 931, 931, 931, 931, 932, 932, 932, 932, 932, 933, 933, 933,
933, 933, 934, 934, 934, 934, 934, 935, 935, 935, 935, 935, 936, 936, 936, 936,
936, 937, 937, 937, 937, 937, 938, 938, 938, 938, 938, 939, 939, 939, 939, 939,
940, 940, 940, 940, 940, 941, 941, 941, 941, 941, 942, 942, 942, 942, 942, 943,
943, 943, 943, 943, 944, 944, 944, 944, 944, 945, 945, 945, 945, 945, 946, 946,
946, 946, 946, 947, 947, 947, 947, 947, 948, 948, 948, 948, 948, 949, 949, 949,
949, 949, 950, 950, 950, 950, 950, 951, 951, 951, 951, 951, 952, 952, 952, 952,
952, 953, 953, 953, 953, 953, 954, 954, 954, 954, 954, 955, 955, 955, 955, 955,
956, 956, 956, 956, 956, 957, 957, 957, 957, 957, 958, 958, 958, 958, 958, 959,
959, 959, 959, 959, 960, 960, 960, 960, 960, 961, 961, 961, 961, 961, 962, 962,
962, 962, 962, 963, 963, 963, 963, 963, 964, 964, 964, 964, 964, 965, 965, 965,
965, 965, 966, 966, 966, 966, 966, 967, 967, 967, 967, 967, 968, 968, 968, 968,
968, 969, 969, 969, 969, 969, 970, 970, 970, 970, 970, 971, 971, 971, 971, 971,
972, 972, 972, 972, 972, 973, 973, 973, 973, 973, 974, 974, 974, 974, 974, 975,
975, 975, 975, 975, 976, 976, 976, 976, 976, 977, 977, 977, 977, 977, 978, 978,
978, 978, 978, 979, 979, 979, 979, 979, 980, 980, 980, 980, 980, 981, 981, 981,
981, 981, 982, 982, 982, 982, 982, 983, 983, 983, 983, 983, 984, 984, 984, 984,
984, 985, 985, 985, 985, 985, 986, 986, 986, 986, 986, 987, 987, 987, 987, 987,
988, 988, 988, 988, 988, 989, 989, 989, 989, 989, 990, 990, 990, 990, 990, 991,
991, 991, 991, 991, 992, 992, 992, 992, 992, 993, 993, 993, 993, 993, 994, 994,
994, 994, 994, 995, 995, 995, 995, 995, 996, 996, 996, 996, 996, 997, 997, 997,
997, 997, 998, 998, 998, 998, 998, 999, 999, 999, 999, 999, 1000, 1000, 1000,
1000, 1000, 1001, 1001, 1001, 1001, 1001, 1002, 1002, 1002, 1002, 1002, 1003,
1003, 1003, 1003, 1003, 1004, 1004, 1004, 1004, 1004, 1005, 1005, 1005, 1005,
1005, 1006, 1006, 1006, 1006, 1006, 1007, 1007, 1007, 1007, 1007, 1008, 1008,
1008, 1008, 1008, 1009, 1009, 1009, 1009, 1009, 1010, 1010, 1010, 1010, 1010,
1011, 1011, 1011, 1011, 1011, 1012, 1012, 1012, 1012, 1012, 1013, 1013, 1013,
1013, 1013, 1014, 1014, 1014, 1014, 1014, 1015, 1015, 1015, 1015, 1015, 1016,
1016, 1016, 1016, 1016, 1017, 1017, 1017, 1017, 1017, 1018, 1018, 1018, 1018,
1018, 1019, 1019, 1019, 1019, 1019, 1020, 1020, 1020, 1020, 1020, 1021, 1021,
1021, 1021, 1021, 1022, 1022, 1022, 1022, 1022, 1023, 1023, 1023, 1023, 1023,
1024, 1024, 1024, 1024, 1024, 1025, 1025, 1025, 1025, 1025, 1026, 1026, 1026,
1026, 1026, 1027, 1027, 1027, 1027, 1027, 1028, 1028, 1028, 1028, 1028, 1029,
1029, 1029, 1029, 1029, 1030, 1030, 1030, 1030, 1030, 1031, 1031, 1031, 1031,
1031, 1032, 1032, 1032, 1032, 1032, 1033, 1033, 1033, 1033, 1033, 1034, 1034,
1034, 1034, 1034, 1035, 1035, 1035, 1035, 1035, 1036, 1036, 1036, 1036, 1036,

1037, 1037, 1037, 1037, 1037, 1038, 1038, 1038, 1038, 1038, 1039, 1039, 1039,
1039, 1039, 1040, 1040, 1040, 1040, 1040, 1041, 1041, 1041, 1041, 1041, 1042,
1042, 1042, 1042, 1042, 1043, 1043, 1043, 1043, 1043, 1044, 1044, 1044, 1044,
1044, 1045, 1045, 1045, 1045, 1045, 1046, 1046, 1046, 1046, 1046, 1047, 1047,
1047, 1047, 1047, 1048, 1048, 1048, 1048, 1048, 1049, 1049, 1049, 1049, 1049,
1050, 1050, 1050, 1050, 1050, 1051, 1051, 1051, 1051, 1051, 1052, 1052, 1052,
1052, 1052, 1053, 1053, 1053, 1053, 1053, 1054, 1054, 1054, 1054, 1054, 1055,
1055, 1055, 1055, 1055, 1056, 1056, 1056, 1056, 1056, 1057, 1057, 1057, 1057,
1057, 1058, 1058, 1058, 1058, 1058, 1059, 1059, 1059, 1059, 1059, 1060, 1060,
1060, 1060, 1060, 1061, 1061, 1061, 1061, 1061, 1062, 1062, 1062, 1062, 1062,
1063, 1063, 1063, 1063, 1063, 1064, 1064, 1064, 1064, 1064, 1065, 1065, 1065,
1065, 1065, 1066, 1066, 1066, 1066, 1066, 1067, 1067, 1067, 1067, 1067, 1068,
1068, 1068, 1068, 1068, 1069, 1069, 1069, 1069, 1069, 1070, 1070, 1070, 1070,
1070, 1071, 1071, 1071, 1071, 1071, 1072, 1072, 1072, 1072, 1072, 1073, 1073,
1073, 1073, 1073, 1074, 1074, 1074, 1074, 1074, 1075, 1075, 1075, 1075, 1075,
1076, 1076, 1076, 1076, 1076, 1077, 1077, 1077, 1077, 1077, 1078, 1078, 1078,
1078, 1078, 1079, 1079, 1079, 1079, 1079, 1080, 1080, 1080, 1080, 1080, 1081,
1081, 1081, 1081, 1081, 1082, 1082, 1082, 1082, 1082, 1083, 1083, 1083, 1083,
1083, 1084, 1084, 1084, 1084, 1084, 1085, 1085, 1085, 1085, 1085, 1086, 1086,
1086, 1086, 1086, 1087, 1087, 1087, 1087, 1087, 1088, 1088, 1088, 1088, 1088,
1089, 1089, 1089, 1089, 1089, 1090, 1090, 1090, 1090, 1090, 1091, 1091, 1091,
1091, 1091, 1092, 1092, 1092, 1092, 1092, 1093, 1093, 1093, 1093, 1093, 1094,
1094, 1094, 1094, 1094, 1095, 1095, 1095, 1095, 1095, 1096, 1096, 1096, 1096,
1096, 1097, 1097, 1097, 1097, 1097, 1098, 1098, 1098, 1098, 1098, 1099, 1099,
1099, 1099, 1099, 1100, 1100, 1100, 1100, 1100, 1101, 1101, 1101, 1101, 1101,
1102, 1102, 1102, 1102, 1102, 1103, 1103, 1103, 1103, 1103, 1104, 1104, 1104,
1104, 1104, 1105, 1105, 1105, 1105, 1105, 1106, 1106, 1106, 1106, 1106, 1107,
1107, 1107, 1107, 1107, 1108, 1108, 1108, 1108, 1108, 1109, 1109, 1109, 1109,
1109, 1110, 1110, 1110, 1110, 1110, 1111, 1111, 1111, 1111, 1111, 1112, 1112,
1112, 1112, 1112, 1113, 1113, 1113, 1113, 1113, 1114, 1114, 1114, 1114, 1114,
1115, 1115, 1115, 1115, 1115, 1116, 1116, 1116, 1116, 1116, 1117, 1117, 1117,
1117, 1117, 1118, 1118, 1118, 1118, 1118, 1119, 1119, 1119, 1119, 1119, 1120,
1120, 1120, 1120, 1120, 1121, 1121, 1121, 1121, 1121, 1122, 1122, 1122, 1122,
1122, 1123, 1123, 1123, 1123, 1123, 1124, 1124, 1124, 1124, 1124, 1125, 1125,
1125, 1125, 1125, 1126, 1126, 1126, 1126, 1126, 1127, 1127, 1127, 1127, 1127,
1128, 1128, 1128, 1128, 1128, 1129, 1129, 1129, 1129, 1129, 1130, 1130, 1130,
1130, 1130, 1131, 1131, 1131, 1131, 1131, 1132, 1132, 1132, 1132, 1132, 1133,
1133, 1133, 1133, 1133, 1134, 1134, 1134, 1134, 1134, 1135, 1135, 1135, 1135,
1135, 1136, 1136, 1136, 1136, 1136, 1137, 1137, 1137, 1137, 1137, 1138, 1138,
1138, 1138, 1138, 1139, 1139, 1139, 1139, 1139, 1140, 1140, 1140, 1140, 1140,
1141, 1141, 1141, 1141, 1141, 1142, 1142, 1142, 1142, 1142, 1143, 1143, 1143,
1143, 1143, 1144, 1144, 1144, 1144, 1144, 1145, 1145, 1145, 1145, 1145, 1146,
1146, 1146, 1146, 1146, 1147, 1147, 1147, 1147, 1147, 1148, 1148, 1148, 1148,
1148, 1149, 1149, 1149, 1149, 1149, 1150, 1150, 1150, 1150, 1150, 1151, 1151,

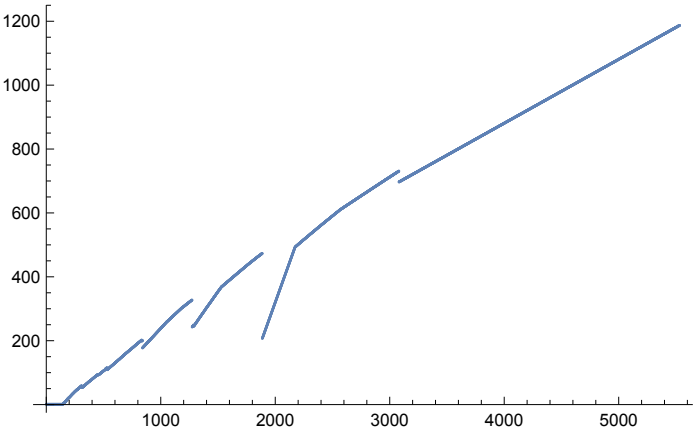
```
1151, 1151, 1151, 1152, 1152, 1152, 1152, 1152, 1153, 1153, 1153, 1153, 1153,
1154, 1154, 1154, 1154, 1154, 1155, 1155, 1155, 1155, 1155, 1156, 1156, 1156,
1156, 1156, 1157, 1157, 1157, 1157, 1157, 1158, 1158, 1158, 1158, 1158, 1159,
1159, 1159, 1159, 1159, 1160, 1160, 1160, 1160, 1160, 1161, 1161, 1161, 1161,
1161, 1162, 1162, 1162, 1162, 1162, 1163, 1163, 1163, 1163, 1163, 1164, 1164,
1164, 1164, 1164, 1165, 1165, 1165, 1165, 1165, 1166, 1166, 1166, 1166, 1166,
1167, 1167, 1167, 1167, 1167, 1168, 1168, 1168, 1168, 1168, 1169, 1169, 1169,
1169, 1169, 1170, 1170, 1170, 1170, 1170, 1171, 1171, 1171, 1171, 1171, 1172,
1172, 1172, 1172, 1172, 1173, 1173, 1173, 1173, 1173, 1174, 1174, 1174, 1174,
1174, 1175, 1175, 1175, 1175, 1175, 1176, 1176, 1176, 1176, 1176, 1177, 1177,
1177, 1177, 1177, 1178, 1178, 1178, 1178, 1178, 1179, 1179, 1179, 1179, 1179,
1180, 1180, 1180, 1180, 1180, 1181, 1181, 1181, 1181, 1181, 1182, 1182, 1182,
1182, 1182, 1183, 1183, 1183, 1183, 1183, 1184, 1184, 1184, 1184, 1184, 1185,
1185, 1185, 1185, 1185, 1186, 1186, 1186, 1186, 1186, 1187, 1187, 1187, 1187}
```

In[•]:=
```
Length[priceupdatetotal]
```

Out[•]= 5532

In[•]:=
```
ListPlot[priceupdatetotal]
```

Out[•]=



In[•]:=
```
Table[wealth[[i]] - c /. NSolve[R[wealth[[i]] - c] == wealth[[i]], c][[1]],
 {i, Length[Table[j, {j, 1, wupper0 / grid}]] + 1,
  Length[Table[j, {j, 1, wupper0 / grid}]] + 1}]
```

Out[•]= {1.192}

In[•]:=
```
Ranew[w_] := Piecewise[{{Ra[w], w ≤ 1192 / 1000 }, {R[w], w > 1192 / 1000}}]
Rbnew[w_] := Piecewise[{{Rb[w], w ≤ 1192 / 1000 }, {R[w], w > 1192 / 1000}}]
```

In[∘]:=
```
T = 30;
Table[list[t] = Range[2^t], {t, 1, T}];
initial = wsel;
list[1] =
 {Round[Ranew[wealth[[initial]] - wealth[[priceupdatetotal[[initial]]]]] / grid + 1],
  Round[Rbnew[wealth[[initial]] - wealth[[priceupdatetotal[[initial]]]]] / grid + 1]}
```

Out[∘]=
```
{816, 350}
```

In[∘]:=
```
n = 2;
While[n < T + 1, list[n] = Flatten[Table[{Round[Ranew[wealth[[list[n - 1][[j]]]] -
          wealth[[priceupdatetotal[[list[n - 1][[j]]]]]]] / grid + 1],
      Round[Rbnew[wealth[[list[n - 1][[j]]]] - wealth[[priceupdatetotal[[
            list[n - 1][[j]]]]]]] / grid + 1]}, {j, 1, Length[list[n - 1]]}]];
 n++]
```

Out[∘]=
```
$Aborted
```

In[∘]:=
```
listwealth = Table[wealth[[list[T][[j]]]], {j, 1, Length[list[T]]}];
```

In[∘]:=
```
Needs["Histograms`"]
```

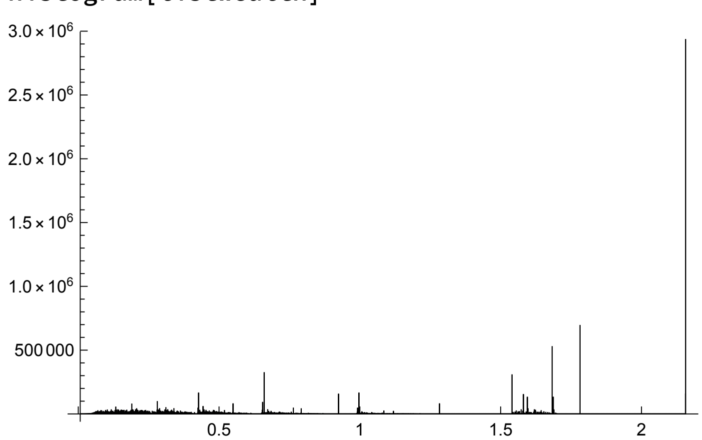
In[∘]:=
```
listwealth
```

Out[∘]=
```
{673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400,
 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400, 673/400,
 673/400, 673/400, 673/400, ··· 16 777 144 ···, 183/2000, 39/1000, 79/2000, 17/1000, 129/400, 69/500, 33/200, 141/2000,
 183/1000, 157/2000, 177/2000, 19/500, 183/1000, 157/2000, 177/2000, 19/500, 179/2000, 77/2000, 77/2000, 33/2000, 183/1000, 157/2000,
 177/2000, 19/500, 179/2000, 77/2000, 77/2000, 33/2000, 183/2000, 39/1000, 79/2000, 17/1000, 79/2000, 17/1000, 17/1000, 7/1000}
```

large output | show less | show more | show all | set size limit...

In[∘]:=
```
Histogram[listwealth]
```

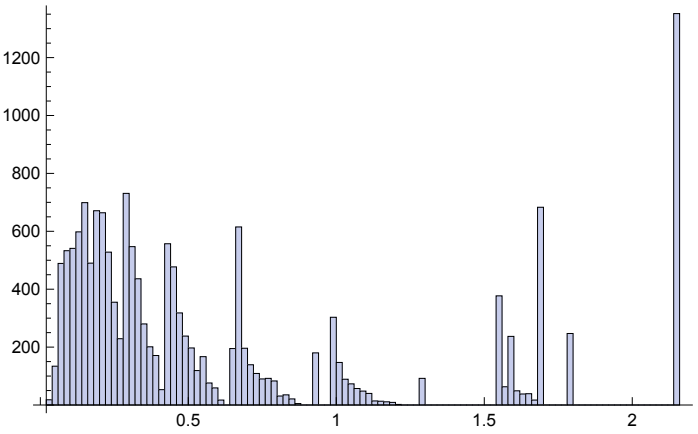
Out[∘]=



In[•]:=
```
N[wealth[[wsel]]]
```
Out[•]=
```
0.258
```

In[•]:=
```
{N[wealth[[Length[wealth]]]], N[Max[listwealth]]}
```
Out[•]=
```
{2.7655, 2.1565}
```

In[•]:=
```
gcom = Histogram[listwealth]
```
Out[•]=



In[•]:=
```
N[wealth[[wtre]]]
```
Out[•]=
```
0.028
```

In[•]:=
```
N[wealth[[wsel]]]
```
Out[•]=
```
0.0495
```

```
(* starting from a wealth just above the selection margin, why is it so messy?

+++++
```

In[•]:=
```
wsel = 100
```
Out[•]=
```
100
```

In[•]:=
```
T = 14;
Table[listcity[t] = Range[2^t], {t, 1, T}];
initialcity = wsel;
```

In[•]:=
```
listcity[1] =
 {Round[Ra[wealth[[initialcity]] - wealth[[consumecity[[initialcity]]]]] / grid + 1],
  Round[Rb[wealth[[initialcity]] - wealth[[consumecity[[initialcity]]]]] / grid + 1]}
```
Out[•]=
```
{141, 116}
```

In[•]:=
```
n = 2;
While[n < T + 1, listcity[n] = Flatten[Table[{Round[Ra[wealth[[listcity[n - 1]][[j]]]] -
          wealth[[consumecity[[listcity[n - 1]][[j]]]]]] / grid + 1],
      Round[Rb[wealth[[listcity[n - 1]][[j]]]] - wealth[[consumecity[[
          listcity[n - 1]][[j]]]]] / grid + 1]}, {j, 1, Length[listcity[n - 1]]}]];
 n++]
```

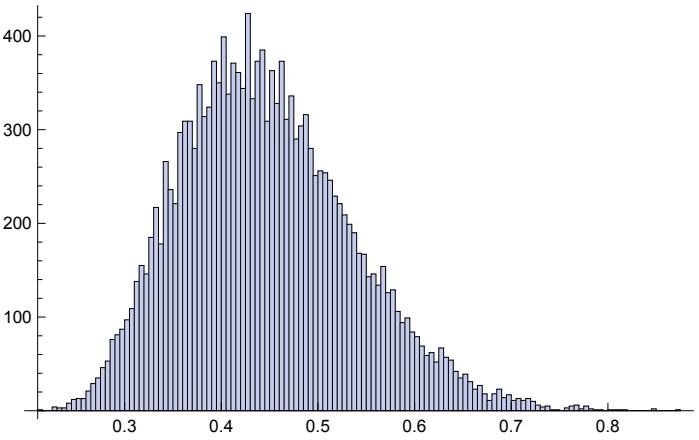
In[•]:=
```
listwealthcity = Table[wealth[[listcity[T]][[j]]], {j, 1, Length[listcity[T]]}];
```

In[•]:=
```
Needs["Histograms`"]
```

General: Histograms` is now obsolete. The legacy version being loaded may conflict with current functionality. See the Compatibility Guide for updating information.

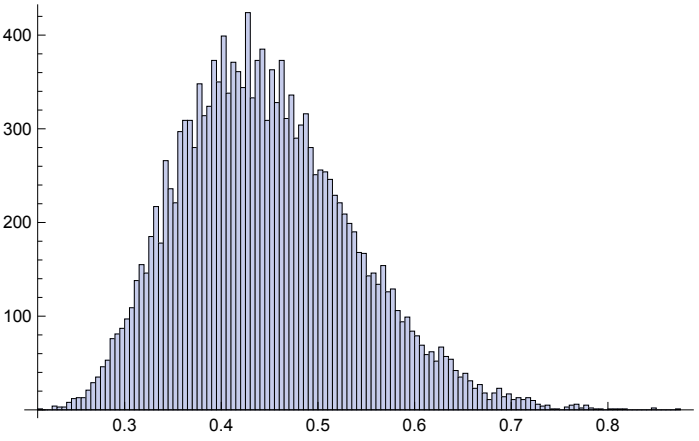
In[•]:=
```
gcity = Histogram[listwealthcity]
```

Out[•]=



In[•]:=
```
Show[{gcity}]
```

Out[•]=



In[ ]:=
```
Show[{gcom, gcity}]
```

Out[ ]=