



Algorithm

```

smn = 0
! loops over the xyz components of n-shell
wn = 0
do in = |n|, 0, -1
  do jn = 0, in
    smn = smn + 1
    wn = wn + 1
    ! loops over the xyz components of m-shell
    wm = 0
    wmn = smn
    do im = |m|, 0, -1
      do jm = 0, im
        wm = wm + 1
        wmn = wmn + 1
        {wm, wn} = {wmn}
      end do
      wmn = wmn + in
    end do
  end do
  smn = smn + |m|
end do
end do

```