FILE: FRAP.F90

```fortran
1  module frap
2
3      use global_env
4      use walker
5      use calendar
6      use cell
7
8      implicit none
9
10     integer, dimension(:), allocatable :: frap_active
11
12 contains
13
14     subroutine frap_bleach()
15
16         integer :: i
17
18         allocate(frap_active(n_walkers))
19
20         do i = 1, n_walkers
21             frap_active(i) = 1
22         end do
23
24         do i = 1, n_walkers
25             if (walker_pos(i,Z) .eq. box_size(Z)) then
26                 frap_active(i) = 0
27             end if
28         end do
29
30     end subroutine
```

```fortran
    subroutine frap_measure(ratio)

        real(DP), intent(out) :: ratio

        integer :: num = 0, denom = 0
        integer :: i

        do i = 1, n_walkers
            if (walker_pos(i,Z) .eq. box_size(Z)) then
                denom = denom + 1
                if (frap_active(i) .eq. 1) then
                    num = num + 1
                end if
            end if
        end do

        ratio = num/denom

    end subroutine

end module
```