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1  abstract interface
    real(dp) function upscale_func_alias(array, weights, p)
        ! import the double precision kind specification
        import dp
        !> the array of subgrid values (no missing values)
6  real(dp), dimension(:), intent(in) :: array
        !> the array of weights (same shape as array)
        real(dp), dimension(:), intent(in), optional :: weights
        !> an optional parameter passed to the function (power mean)
        real(dp), intent(in), optional :: p
11  end function upscale_func_alias
end interface
```