```fortran
module header

    implicit none

    type Matrix
        real (kind=8), allocatable, dimension(:) :: aa
        integer, allocatable, dimension(:) :: ii
        integer, allocatable, dimension(:) :: jj
        integer :: n
        integer :: nnz
        integer :: ibeg
        integer :: iend
        integer :: bw
    end type Matrix

    type Vector
        real (kind=8), allocatable, dimension(:) :: xx
        integer :: n
        integer :: ibeg
        integer :: iend
    end type Vector

end module
```