ADAS Subroutine d7grps

subroutine d7grps(nwave, ndwave, wave, index)

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C *************** FORTRAN77 FUNCTION: D7GRPS ****************
C PURPOSE : Puts wavelengths into a 5 bin histogram for automating
           effective line selection in ADAS407.
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С
C COMMENTS: Note that the number of bins is fixed and no attempt is
          made at clever adaptive methods of optimising case where
С
          there is a large empty wavelength space between groups.
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C INPUT: (I*4) NWAVE = number of wavelengths
C INPUT: (I*4) NDWAVE = max size of wavelength array C INPUT: (R*8) WAVE = wavelengths
С
C OUTPUT: (I*4) INDEX = indices (1->nbin) of wavelengths
С
C ROUTINES:
        ROUTINE SOURCE BRIEF DESCRIPTION
С
С
         ______
         I4INDF ADAS Finds closet index in an array
С
С
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C AUTHOR : Martin O'Mullane
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C VERSION : 1.1
C DATE : 17-01-2002
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C MODIFIED : Martin O'Mullane
С
           - First version.
С
C-----
     INTEGER
                     INDEX (NDWAVE),
                                    NDWAVE, NWAVE
     REAL*8
                    WAVE (NDWAVE)
```

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