

ADAS Subroutine xxr8sort

SUBROUTINE XXR8SORT(N, LUP, XA, IA)

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C
C ***** FORTRAN77 SUBROUTINE: XXR8SORT *****
C
C PURPOSE: Sorts a REAL*8 array xa and its index array. This is a
C           bubble sort designed for small arrays.
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C
C CALLING PROGRAM:  General use
C
C SUBROUTINE:
C
C INPUT          : (I*4)  N   = Size of input arrays
C INPUT          : (L*4)  LUP = .TRUE. sort in ascending order
C                   .FALSE. descending order
C INPUT/OUTPUT   : (R*8)  XA  = Array to be sorted
C INPUT/OUTPUT   : (I*4)  IA  = Original index of sorted XA
C
C ROUTINES: NONE
C
C NOTES: Based on nsort
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C AUTHOR:  Martin O'Mullane
C         K1/1/52
C
C DATE:    19/07/99
C
C VERSION: 1.1
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C-----
C
C          INTEGER          IA(*),      N
C          LOGICAL          LUP
C          REAL*8           XA(*)
```