

## ADAS Subroutine i4ndec

FUNCTION I4NDEC (IDEC)

```
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C
C ***** FORTRAN77 FUNCTION: I4NDEC *****
C
C PURPOSE: RETURNS N QUANTUM NUMBER OF AN ORBITAL GIVEN IN THE
C          DECIMAL FORM
C
C
C INPUT : (I*4)  IDEC   = DECIMAL ORBITAL NUMBER (EG.'10')
C
C OUTPUT: (I*4)  I4NDEC = PRINCIPAL QUANTUM NUMBER FOR ORBITAL
C
C          (I*4)  NGRPA() = SET OF N-VALUES FOR DECIMAL ORBITALS
C
C SUBROUTINES:  NONE
C
C AUTHOR:  H. P. SUMMERS, UNIVERSITY OF STRATHCLYDE
C          JA8.08
C          TEL. 0141-553-4196
C
C DATE:    06/06/96
C
C UPDATE:  24/07/96  PEB - REMOVE SPURIOUS EXTRA 'END' STATEMENT.
C
C UPDATE:  19/02/03  H.P. SUMMERS - EXTENDED RANGE
C
C
C UNIX-IDL PORT:
C   WILLIAM OSBORN, TESSELLA SUPPORT SERVICES PLC.
C
C DATE:    20TH AUGUST 1996
C
C VERSION: 1.1 DATE: 20-08-96
C MODIFIED: WILLIAM OSBORN
C   - FIRST VERSION
C
C VERSION: 1.2 DATE: 19-02-03
C MODIFIED: H.P. SUMMERS
C - EXTENDED RANGE
C-----
C
C          INTEGER          IDEC
```