solutions.txt Mon Nov 25 14:06:31 2013

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2nd piece of code to demonstrate the importance of ordering and the allowed overlapping of the test ranges in an IF construct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   !** First Piece of code to demonstrate the importance
!** of ordering and the allowed overlapping of the test ranges
!** in an IF construct.
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ELSBIF (i .EO. 7) THEN
PRINT*, "Integer = 7"
ELSB FF (i .EE. 2 .AND. i .LE. 8) THEN
PRINT*, "Integer is greater than one and less than nine"
ELSB IF (i .GB. 6 .AND. i .LE. 10) THEN
PRINT*, "Integer is larger than five and less than eleven"
ELSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              !*** IF construct with no overlapping of test ranges.
!*** Therefore ORDERING is NOT important
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ELSE IF (i .GT. 2 .AND. i .LT. 7) THEN
PRINT*, "Integer is greater than 2 an less than 7"
ELSE IF (i .GT. 7 .AND. i .LE. 10) THEN
PRINT*, "Integer is greater than 7 and less than 11"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             !*** IF construct with overlapping of test ranges.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRINT*,"Enter an INTEGER"
READ*,i !*** Get the user to input i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRINT*,"Enter an INTEGER"
READ*,i !*** Get the user to input i
                                     3: ./exercisel/example_if2.f90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ./exercisel/example_if.f90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRINT*, "Integer = 2"

ELSE IF (i .EQ. 7) THEN
                                                                                                                                   11: ** 2.04 piece of code to
8: | ** 2.04 piece of code to
10: | ** in an IF construct.
11: | IMPLICIT NONE
13: | INTEGER :: |
15: | PRINT*, "Enter an INTEGER |
18: | ** Therefore ORDERING
21: | FEAD*, | | *** Get the us
19: | *** Therefore ORDERING
21: | FEAD*, | | | *** Get the us
22: | PRINT*, "Integer = 7" |
23: | FESE IF (| i. EQ. 7) THEN
23: | PRINT*, "Integer | 19 gre
24: | ELSE IF (| i. GT. 2 AND. 29: |
25: | PRINT*, "Integer | 19 gre
26: | PRINT*, "Integer | 19 gre
27: | PRINT*, "Integer | 19 gre
28: | ELSE IF (| i. GT. 2 AND. 29: |
29: | PRINT*, "Integer | 19 gre
29: | PRINT*, "Integer | 19 gre
29: | FRINT*, "Integer | 19 gre
20: | FRINT*, "Integer | 19 gre
20: | FRINT*, "Integer | 10 gre
21: | FRINT*, "Integer | 10 gre
22: | FRINT*, "Integer | 2 gre
23: | FRINT*, "Enter an INTEGER
24: | ** First Piece of code to de to
                                                                                                              5: PROGRAM example_if2
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!**** CASE construct NOTE overlapping of ranges in case-selector is !**** NOT permitted. Therefore ORDERING is NOT important PRINT*,"Integer is greater than 2 an less than 7" CASE (8:10)
PRINT*,"Integer is greater than 7 and less than 11" CASE DEFAULT ď *********************************** ******************************** ***************** PRINT*,"Enter an INTEGER" READ*,i !*** Get the user to input i Mon Nov 25 14:06:31 2013 77: ./exercise2/example_case.f90 CASE (7)
PRINT*,"Integer = 7" PRINT*, "Integer = 2" END PROGRAM example_case PRINT*, "No Match" END SELECT 71: END PROGRAM example_if PRINT*, "No Match" 78: 79: PROGRAM example_case SELECT CASE (i) IMPLICIT NONE INTEGER :: i CASE (3:6) CASE (2) END IF solutions.txt 82: 885: 887: 889: 901: 80: