

Processing Two-Dimensional Arrays

We need two loops, one to control the rows, and one to control the columns:

1: summation & subtraction of arrays

$$A(m, n) + B(m, n) = C(m, n)$$

$$A(m, n) - B(m, n) = C(m, n)$$

integer :: A(2,3), B(2,3), C(2,3)

do i=1,2

do j=1,3

$$C(2,3) = A(2,3) \pm B(2,3)$$

End do

End do

2: initializing all elements of an array to Zero

Real, DIMENSION(2,3) :: A,B

do i=1,2

do j=1,3

A(i, j)=0

B(i, j)=0

End do

End do

Real, DIMENSION(2,3) :: A,B

do j =1,2

do i=1,3

A(i, j)=0

B(i, j)=0

End do

End do