**x = 10.d0 ! Search for value 10.0 in the array**.

Index computed with linear search: 8

Index computed with binary search: 8

--------------------------

Testing on a sorted array

Index computed with linear search: 9999999 9999999

was the value found?: T

Index computed with binary search: 9999999 9999999

was the value found?: T

--------------------------

Testing on an unsorted array

Index computed with linear search: 4999999

was the value found?: T

CPU time for linear search: 1.183799999999999E-002

Index computed with linear search: 4999999

was the value found?: T

CPU time for binary search: 3.000000000003000E-006

Index computed with binary search: 4999999

was the value found?: T

Time difference between linear and binary search: 1.183499999999998E-002

Speedup factor: 3945.99999999605 times faster