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\* File : Lab3\_3.6.doc

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\* Description : Sort the array and Search the Match In array

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BEGIN

DECLARE num[5] AS INTEGERARRAY;

DECLARE i,j,temp,search AS INTEGER

FOR i=0 TO 5

ACCEPT num[i] AND STORE IN num[i]

END FOR

PROMPT "Enter the search element"

ACCEPT search AND STORE IN search

FOR i=0 TO 5

FOR j=0 TO 5

IF num[i]>num[j]

temp=num[i]

num[i]=num[j]

num[j]=temp

END IF

END FOR

END FOR

FOR i=0 TO 5

DECLARE low,high,mid AS INTEGER

INITIALISE low TO 1

INITIALISE high TO 5

WHILE search!=num[i] AND low<=high

mid=(low+high)/2

IF search<num[mid]

high=mid-1

ELSE IF search>num[mid]

low=mid+1

END IF

END WHILE

IF search==num[i]

PRINT "SEARCHED ELEMENT IS FOUND"

ELSE

PRINT "NOT FOUND"

END IF

END FOR

END