LINEAR SEARCH

#include <stdio.h>

void main()

{

int array[10];

int i, num, keynum, found = 0;

printf("Enter the value of number of elements: \n");

scanf("%d", &num);

printf("Enter the elements one by one \n");

for (i = 0; i < num; i++)

{

scanf("%d", &array[i]);

}

printf("Enter the element to be searched \n");

scanf("%d", &keynum);

/\* Linear search begins \*/

for (i = 0; i < num ; i++)

{

if (keynum == array[i] )

{

found = 1;

break;

}

}

if (found == 1)

printf("Element is present in the array at index %d\n",i);

else

printf("Element is not present in the array\n");

}

Output:

Enter the value of number of elements:

5

Enter the elements one by one

1

2

3

4

55

Enter the element to be searched

55

Element is present in the array at index 4