#include <stdio.h>

#include <conio.h>

void main()

{

 int array[10];

 int i, N, keynum, found=0;

 clrscr();

 printf("Enter the value of N\n");

 scanf("%d",&N);

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

 for(i=0; i<N ; i++)

 {

  scanf("%d",&array[i]);

 }

 printf("Input array is\n");

 for(i=0; i<N ; i++)

 {

  printf("%d\n",array[i]);

 }

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

 scanf("%d", &keynum);

 /\* Linear search begins \*/

 for ( i=0; i < N ; i++)

 {

  if( keynum == array[i] )

  {

   found = 1;

   break;

  }

 }

 if ( found == 1)

  printf("SUCCESSFUL SEARCH\n");

 else

  printf("Search is FAILED\n");

} /\* End of main \*/