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/*
   Linear search of an array
*/

#include <stdio.h>
#define SIZE 100

int linearSearch(int [], int, int);

void main()
{
    int a[SIZE], x, searchKey, element;

    for (x=0; x<=SIZE-1; x++)    /* create some data */
        a[x]=2*x;

    printf("\nEnter integer search key: \n");
    scanf("%d", &searchKey);
    element=linearSearch(a, searchKey, SIZE);

    if (element != -1)
        printf("Found value in element %d\n", element);
    else
        printf("Value nor found\n");
}

int linearSearch(int array[], int key, int size)
{
    int n;

    for (n=0; n<=size-1; ++n)
        if (array[n] == key)
            return n;

    return -1;
}

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```

willfredo@ThinkPad-E15-Gen-2:~/Documentos/Programacion/c$ ./a.out
Enter integer search key:
15
Value nor found
willfredo@ThinkPad-E15-Gen-2:~/Documentos/Programacion/c$

```