

/*C Program to implement Sequential Search

Input : 1. Size of the array

2. Numbers in the array

3. Number you want to search in the array

Output : 1. Index of the number in the array – if search is successful

2. If search is not successful -1

***/**

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int array[50], search, n, i;
```

```
    printf(" Enter the size of the array\n");
```

```
    scanf("%d",&n);
```

```
    printf("\n Enter %d number(s)\n", n);
```

```
    for (i = 0; i < n; i++)
```

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

```
    printf("\n Enter the number you want to search\n");
```

```
    scanf("%d", &search);
```

```
    printf("\n\n");
```

```
    for (i = 0; i < n; i++)
```

```
    {
```

```
        if (array[i] == search)    /* If search key is found */
```

```
        {
```

```
            printf(" Number %d is present at location %d in the array.\n", search, i);
```

```
            /*Returns the index of search key*/
```

```
            break;
```

```
    }  
}  
if (i == n)  
    printf(" Program returned -1\n\n");  
    printf(" %d is not present in the array!\n\n", search);  
  
return 0;  
}
```



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Sample Input and Output:

1.

```
Enter the size of the array
6


Enter 6 number(s)
5 8 48 24 16 10

Enter the number you want to search
24

Number 24 is present at location 3 in the array.
24 is not present in the array!

Press any key to continue...
```

2.



```
Enter the size of the array
6

Enter 6 number(s)
14 5 24 10 99 16

Enter the number you want to search
17

Program returned -1

17 is not present in the array!

Press any key to continue..._
```