Alfred Jophy

CS27

Linear Search

Question

Implement linear search

Source Code

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

int main (){

        int array_size,search_term;

        printf("Enter size of array : ");
        scanf("%d",&array_size);

        int *array=calloc(array_size,sizeof(int));

        printf("Enter the elements : \n");
        for(int i=0;i<array_size;++i)
                scanf("%d",&array[i]);

        printf("Enter the number to search for : ");
        scanf("%d",&search_term);

        for(int i=0;i<array_size;++i)
                if(search_term==array[i]){
                        printf("The number you searched for is at position %d index
  %d \n",i+1,i);
                        break;
                }
        free(array);
        return 0;
}
```

Output

```
Enter size of array : 10
Enter the elements :
7
6
3
9
0
1
5
6
```

```
3
8
Enter the number to search for : 1
The number you searched for is at position 6 index 5
```