

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

```
int main() {
```

```
    int n, key, found = 0;
```

```
    // Input: size of the list
```

```
    printf("Enter the number of elements: ");
```

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

```
    int arr[n];
```

```
    // Input: list elements
```

```
    printf("Enter %d elements:\n", n);
```

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

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

```
    }
```

```
    // Input: number to search
```

```
    printf("Enter the number to search: ");
```

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

```
    // Linear search
```

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

```
        if(arr[i] == key) {
```

```
            printf("Number %d found at position %d (index %d).\n", key, i + 1, i);
```

```
            found = 1;
```

```
            break;
```

```
        }
```

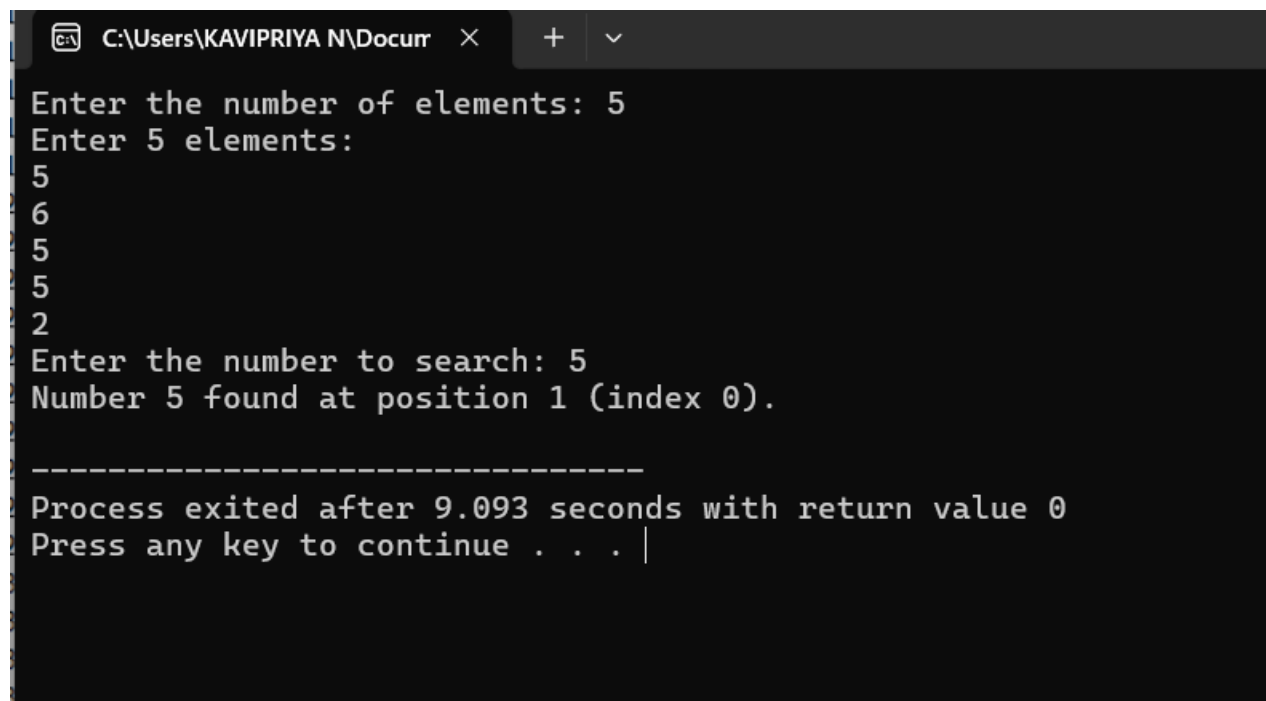
```
    }
```

```
    if (!found)
```

```
printf("Number %d not found in the list.\n", key);
```

```
return 0;
```

```
}
```



```
C:\Users\KAVIPRIYA N\Docum... × + v
Enter the number of elements: 5
Enter 5 elements:
5
6
5
5
2
Enter the number to search: 5
Number 5 found at position 1 (index 0).

-----
Process exited after 9.093 seconds with return value 0
Press any key to continue . . . |
```