

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

```
int main() {
```

```
    int arr[100], n, i, key, found = 0;
```

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

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

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

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

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

```
    }
```

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

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

```
    for(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;
```

```
        }
```

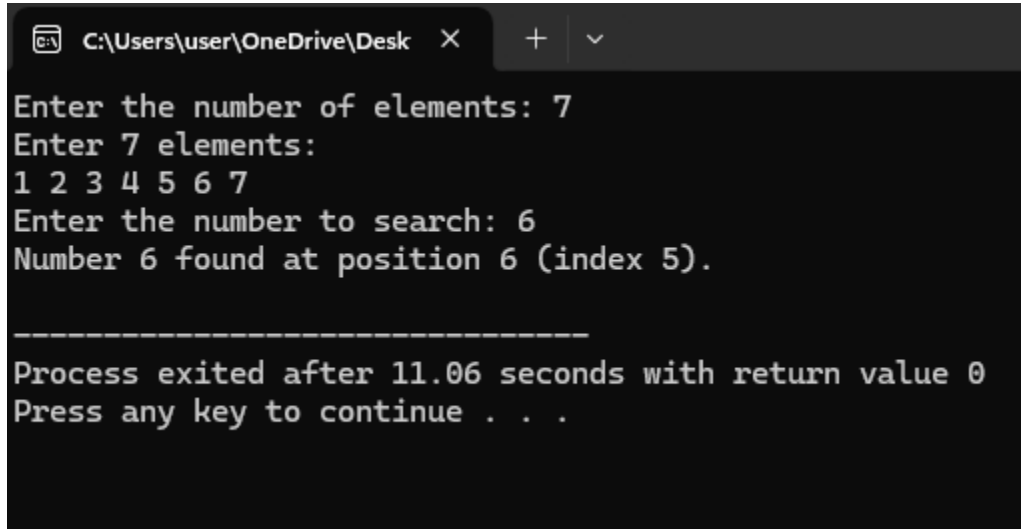
```
    }
```

```
    if(!found) {
```

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

```
    }
```

```
return 0;  
}
```



The screenshot shows a Windows command prompt window with a dark background and white text. The title bar at the top indicates the file path 'C:\Users\user\OneDrive\Desktop' and includes standard window controls (close, maximize, minimize). The command prompt displays the following sequence of text: 'Enter the number of elements: 7', 'Enter 7 elements:', '1 2 3 4 5 6 7', 'Enter the number to search: 6', and 'Number 6 found at position 6 (index 5)'. A horizontal line of dashes separates this output from the final status message: 'Process exited after 11.06 seconds with return value 0' and 'Press any key to continue . . .'. The user has entered the number 7 for the number of elements, the sequence 1 2 3 4 5 6 7 for the elements, and the number 6 for the search value.

```
C:\Users\user\OneDrive\Desktop > Enter the number of elements: 7  
Enter 7 elements:  
1 2 3 4 5 6 7  
Enter the number to search: 6  
Number 6 found at position 6 (index 5).  
  
-----  
Process exited after 11.06 seconds with return value 0  
Press any key to continue . . .
```