

8.

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

```
int main() {
```

```
    int arr[50], n, i, key, found = 0;
```

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

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

```
    printf("Enter the elements:\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("Element found at position %d\n", i + 1);
```

```
            found = 1;
```

```
            break;
```

```
        }
```

```
    }
```

```
    if(!found)
```

```
        printf("Element not found.\n");
```

```
    return 0;
```

```
}
```

#### Output

```
Enter the number of elements: 4
```

```
Enter the elements:
```

```
1 7 45 2
```

```
Enter the number to search: 3
```

```
Element not found.
```

```
=== Code Execution Successful ===
```