

```
1 #include <stdio.h>
2
3 #define ARRAY_SIZE 10
4
5 int main(void) {
6     int array[ARRAY_SIZE] = {1, 2, 3, 4, 5
7 , 6, 7, 8, 9, 10};
8     int search_key = 5;
9     int found = 0;
10    int i;
11
12    for (i = 0; i < ARRAY_SIZE; i++) {
13        if (array[i] == search_key) {
14            found = 1;
15            break;
16        }
17    }
18
19    if (found) {
20        printf("
The search key was found at index %d\n"
, i);
21    } else {
22        printf("
The search key was not found in the array
\n");
23    }
24
25    return 0;
}
```