

```
1  #include <stdio.h>
2  #include <stdarg.h>
3
4  #define NUM_TO_BE_FOUND 3
5  #define NUM_ELEMENTS 10
6
7  int main(void)
8  {
9      // function prototypes
10     void FindNumber(int, int, ...);
11
12     // code
13     printf("\n\n");
14
15     FindNumber(NUM_TO_BE_FOUND, NUM_ELEMENTS, 3, 5, 9, 2, 3, 6, 9, 3, 1, 3);
16
17     return(0);
18 }
19
20 void FindNumber(int num_to_be_found, int num, ...) // VARIADIC FUNCTION
21 {
22     // variable declarations
23     int count = 0;
24     int n;
25     va_list numbers_list;
26
27     // code
28     va_start(numbers_list, num);
29
30     while(num)
31     {
32         n = va_arg(numbers_list, int);
33         if(n == num_to_be_found)
34             count++;
35         num--;
36     }
37
38     if(count == 0)
39         printf("Number %d Could Not Be Found !!!\n\n", num_to_be_found);
40     else
41         printf("Number %d Found %d Times !!!\n\n", num_to_be_found, count);
42
43     va_end(numbers_list);
44 }
45
46
47
```