```
#include <stdio.h>
 2 #include <stdarg.h>
 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 {
        // function prototypes
22
23
        int va_FindNumber(int, int, va_list);
24
25
        // variable declarations
26
        int count = 0;
27
        int n;
28
        va_list numbers_list;
29
30
        // code
31
        va_start(numbers_list, num);
32
33
        count = va_FindNumber(num_to_be_found, num, numbers_list);
34
35
        if(count == 0)
            printf("Number %d Could Not Be Found !!!\n\n", num_to_be_found);
36
37
        else
            printf("Number %d Found %d Times !!!\n\n", num_to_be_found, count);
38
39
40
        va_end(numbers_list);
41 }
42
   int va_FindNumber(int num_to_be_found, int num, va_list list)
43
44
        // variable declarations
45
46
        int count_of_num = 0;
47
        int n;
48
49
        // code
50
        while(num)
51
        {
52
            n = va_arg(list, int);
```

```
...NumberOfArguments\02-FindNumber\Method_02\FindNumber_02.c
```

```
2
           if(n == num_to_be_found)
53
54
               count_of_num++;
55
           num--;
56
       }
57
58
       return(count_of_num);
59 }
60
61
```