```
1 #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
       // variable declarations
25
26
       int count = 0;
27
       int n;
28
       va_list numbers_list;
29
30
       // code
31
       va_start(numbers_list, num);
32
       count = va_FindNumber(num_to_be_found, num, numbers_list);
33
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
43 int va_FindNumber(int num_to_be_found, int num, va_list list)
44 {
45
        // variable declarations
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
```

```
if(n == num_to_be_found)
count_of_num++;
num--;
}

return(count_of_num);

return(count_of_num);
```

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