```
1 #include <stdio.h>
 2 #include <stdarg.h>
 4 int main(void)
 5 {
 6
        // function prototypes
 7
        int CalculateSum(int, ...);
 8
 9
        // variable declarations
10
        int answer;
11
        // code
12
13
        printf("\n\n");
14
15
        answer = CalculateSum(5, 10, 20, 30, 40, 50);
16
        printf("Answer = %d\n\n", answer);
17
18
        answer = CalculateSum(10, 1, 1, 1, 1, 1, 1, 1, 1, 1);
        printf("Answer = %d\n\n", answer);
19
20
21
        answer = CalculateSum(0);
        printf("Answer = %d\n\n", answer);
22
23
24
        return(0);
25 }
26
27 int CalculateSum(int num, ...) // VARIADIC FUNCTION
28 {
29
        // function prototype
30
        int va_CalculateSum(int, va_list);
31
32
        // variable declarations
        int sum = 0;
33
34
        va_list numbers_list;
35
36
       // code
37
        va_start(numbers_list, num);
38
39
        sum = va_CalculateSum(num, numbers_list);
40
41
        va_end(numbers_list);
42
        return(sum);
43 }
45 int va_CalculateSum(int num, va_list list)
46 {
        // variable declaration
47
        int n;
48
49
        int sum_total = 0;
50
        // code
52
        while(num)
```

```
...20\14-VariableNumberOfArguments\01-Sum\Method_02\Sum_02.c
```

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