```
// Average three numbers using an array and a loop to fill the array
    #include <cs50.h>
    #include <stdio.h>
 3
 4
    // Function prototype
 5
    float average(int length, int array[]);
 6
 7
    int main(void)
 8
 9
    {
10
        // Let the user decide how many scores to enter
        int n = get int("How many scores do you want to enter? ");
11
12
13
        // Declare the array
14
        int scores[n];
15
16
        // Input n scores
        for (int i = 0; i < n; i++)
17
18
        {
            scores[i] = get_int("Score: ");
19
20
        }
21
22
        // Print the average
23
        printf("Average: %0.3f\n", average(n, scores));
24
    }
25
    // Function to determine the average
26
    float average(int length, int array[])
27
28
    {
29
        // Calculate the sum
30
        int sum = 0;
        for (int i = 0; i < length; i++)
31
        {
32
33
            sum += array[i];
34
35
        // Return the average
36
        // Note* we needed to typecast the length so that we don't have integer division
37
        // a.k.a we forced the length to be a float
38
        return sum / (float) length;
39
40
   }
```