

```
1  /**
2   * Average scores using an array
3   */
4
5  #include <cs50.h>
6  #include <stdio.h>
7
8  // Function prototype
9  float array_average(int length, int array[]);
10
11  int main(void)
12  {
13      // Let the user decide how many scores
14      int n = get_int("How many scores do you want to enter? ");
15
16      int scores[n];
17      for(int i = 0; i < n; i++)
18      {
19          scores[i] = get_int("Scores: ");
20      }
21
22      // Print result
23      printf("Average: %0.2f%%\n", array_average(n, scores));
24  }
25
26  float array_average(int length, int array[])
27  {
28      // Add all the numbers up
29      int sum = 0;
30      for (int i = 0; i < length; i++)
31      {
32          sum += array[i];
33      }
34
35      // Divide by the number of scores
36      // Typecast n to a float for division
37      return sum / (float) length;
38  }
```