

# Programming Exercise 4.4

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## Division With Whole Numbers

**Purpose.** Learn how to handle math division when the numerator and denominator are both whole numbers.

### Requirements.

Write `averageAge.cpp` as a modification of chapter 3's "Average Age" sample program. The chapter 3 sample program "Average Age" found the average of 19, 21, and 30 to be 23. It should be  $23\frac{1}{3}$  instead. Select any one of the variations of the solution to this chapter 3 sample program, and modify it to output the average with two decimal digits (that is, 23.33). Do *not* solve the problem by using floating point variables to store the three ages. Use this as a starting point:

```
#include <iostream>
using namespace std;

int main()
{
    int age1 = 19;
    int age2 = 21;
    int age3 = 30;

    YOU COMPLETE THIS PART
}
```

**Program I/O.** Input: 3 programmer-specified inputs (three ages as specified above) Output: The average age, rounded to two decimal digits.

### Example.

The average of three ages is 23.33.