

Exercises #3

[1*] 1. Is this a valid program? Why or why not?

```
#include <iostream>
#include <string>
int main()
{
    /* This is a comment that extends over several lines
       because it uses /* and */ as its starting and
       ending delimiters */
    std::cout << "Does this work?\n";
    return 0;
}
```

[1*] 2. Is this a valid program? Why or why not?

```
#include <iostream>
#include <string>
int main()
{
    // This is a comment that extends over several lines
    // by using // at the beginning of each line instead of using /*
    // or */ to delimit comments.
    std::cout << "Does this work?\n";
    return 0;
}
```

[2*] 3. Write a program that, when run, writes the Hello, world!" program as its output.

[1*] 4. Read two integer numbers and compute their average. re-write the program for 3, 4, and 5 numbers. Do you think we can extend programs this way? What is your conclusion?