

Exercises:

1. Get the ``Hello, world!" program to work on your computer. If you're using a Unix machine, the instructions in the notes should get you started. If you're using a commercial compiler on a home computer, the compiler's instruction manuals should (really, must) tell you how to enter, compile, and run a program. (In either case, the ``Compiling C Programs" handout should help, too.)

2. What do these loops print? for(i = 0; i < 10; i = i + 2) {

```
    printf("%d\n", i); }
```

for(i = 100; i >= 0; i = i - 7) {

```
    printf("%d\n", i); }
```

for(i = 1; i <= 10; i = i + 1) {

```
    printf("%d\n", i); }
```

for(i = 2; i < 100; i = i * 2) {

```
    printf("%d\n", i); }
```

0

2

4

6

8

100

93

86

79

72

65

58

51

44

37

30

23

16

9

2

1

2

3

4

5

6

7

8

9

10

2

4

8

16

32

64

3. Write a program to print the numbers from 1 to 10 and their squares:

1 1 2 4 3 9 ... 10 100

4. Write a program to print this triangle:

*

**

Don't use ten printf statements; use two nested loops instead. You'll have to use braces around the body of the outer loop if it contains multiple statements:

```
for(i = 1; i <= 10; i = i + 1) {
```

```
/* multiple statements */ /* can go in here */ }
```

(Hint: a string you hand to printf does not have to contain the newline character \n.)