COS126: General Computer Science **Spring 1996**

Exercise # 1

Handed out:Feb. 15, 1996

These exercises are meant to guide class discussion and to help you prepare for exams. (Note that there are 3 "midterms" in this course.) *Do not* turn in solutions.

1. What does the following sequence of C statements do? `t = x; x = y; y = t;`
2. What is wrong with the following C statement? `if (a > b) then c = 0;`
3. What is wrong with the following C statement? `if a > b { c = 0; }`
4. What is wrong with the following C statement? `if (a > b) c = 0;`
5. What is wrong with the following C program fragment?

```
c = 0
b = 0;
```

6. What is wrong with the following C statement? `if (a > b) c = 0 else b = 0;`
7. Write a C program that takes a number N as input from the user and prints out the largest power of 2 that is smaller than N.
8. What does the following C statement do? `printf(''%d'', 5/3);`
9. What does the following program print?

```
#include <stdio.h>
int f(int j)
{
 j=15;
 return j;
}
void main()
{ int  i, j=0;

i = f(j);
printf(''%d, %d'', i, j);
}
```