

CS 271 Review for the exam

You will use this syntax for srand:

```
srand( time(NULL) );
```

Pointer arithmetic will be on the exam. You must know how to use these operators with pointers.

++ --

+ or -

Problem 7.19 (The authors have used an absolutely horrible style of programming in this problem. It's just to see if you understand pointers.)

```
int main(void) {
    char string1[SIZE];
    char string2[SIZE];
    puts ("Enter two strings\n");
    scanf("%79s%79s", string1, string2);
    mystery1( string1, string2 );
    printf("%s", string1);
}

void mystery1( char *s1, const char *s2 ) {
    while (*s1 != '\0') {
        ++s1;
    }
    for ( ; *s1 = *s2; ++s1, ++s2 )
    {
        ;
    }
}
```

green = initialization (none) blue = condition pink = increment

This code appends the characters from string2 to the end of string1.

When writing a makefile on the exam use → to indicate tab.

```
all: lab3

lab3: lab3functions.o lab3.o
    gcc -o lab3 lab3functions.o lab3.o

lab3functions.o: lab3functions.c lab3functions.h
    gcc -c lab3functions.c

lab3.o: lab3.c lab3functions.h
    gcc -c lab3.c
```

At the linux prompt, to use this makefile

make

Lab 4 - Testing

Input: A1B23K

Should print
23

Input: aBxYnOPrS

Should print
OP

Input: abk123@XY

Should print
ab
123
XY