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Course Review Sheet

- C Language:

1. The overall structure of a program block,

```
#include<stdio.h>
functions
main( int argc, char * argv[])
{ declarations
  statements }
```

2. The basic declarations and types,

```
int i, j ;
double x, y ;
char c, d, * s, * t ;
```

3. Statements and compound statements,

```
expression;
{ statement ; ... ; statement }
```

4. Control structures:

```
if ( ) { }
if ( ) { } else { }
while ( ) { }
for ( ; ; ) { }
```

5. Operators:

Logical: ==, !=, >, >=, <, <=, &&, ||, !.

Arithmetic: +, -, *, /, %.

Assignment: =, +=, -=, *=, /=, %=.

6. Functions and **return** statements:

```
type function-name ( parameters, ..., parameters )
{ declarations
  statements }
```

7. Arrays and passing arrays to subroutines:

```
int fill_it( char X[], int i ) {
    int j ;
    for ( j=0 ; j<i ; j++ ) X[j] = '\0' ;
    return i ; }
/* Main Procedure */
main(int argc, char * argv[]) {
    char a[10] ;
    fill_it( a, 10 ) ; }
```

8. *We have not yet done structures or unions.*• **Unix:**

1. Directory commands: `ls`, `cd`, `mkdir` and `rmdir`.
2. File commands: `cp`, `rm` and `mv`.
3. Compiling and running a program: `cc`, `a.out`.
4. The `vi` editor.
5. Input and output redirection, `>`, `<`. E-Mail.

• **Reading:**

You are now reading Chapters 1 through 4 in *A Book on C*, and Chapters 1 and 2 in *Unix for Programmers and Users*.