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0. Which prered did you take and when? CS2110 CS2130
Fall Spring Summer 98 98 99 00 01 02 03 04 05 06 07 08

1. Are you planning on taking courses for which CS 2200 is a prerequisite:

Networking __ Operating Systems __ Hardware Arch.

2. Write a function in C called swap that will swap two ints:

It will be called like this:

Int a = 42; int b = 78; /* Call to swap goes here */ printf(*%d %d\n*, a, b);

The output would be: 78 42

Note: a and b are not global variables. That is your function must be able to be called with different pairs of variables. Write swap here:

3. What does "make" do? Your answer should include three major items.

a. Combines files to be comfiled together.

b. (reate) on executable name

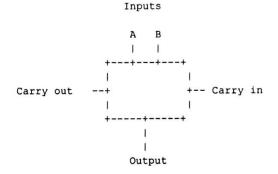
c. Uses information from a description file

4. Write 42 in binary and in hexadecimal

binary: 101010

Write 42.25 In binary (Not IEEE Floating Point) binary:

5. Given a full adder as a building block:



Design a 4 bit arithmetic functional unit which will implement addition (A+B) and 2's complement subtraction (A-B)

Extra credit: Provide for overflow detection. (Use the back of the paper for your answer)

6. What do you suppose this does:

7. What do you think about this:

```
You need to check
Plan* createNewSelectionNode(
 Cond* condition,
                                 whether new Node is
 char* relation)
                                 null after mallocing or you vin into
 Plan* newNode:
 newNode=(Plan*)malloc(sizeof(Plan));
                                  a segmentation fault.
 newNode->op=SELECTION:
 newNode->condParams[0]=condition;
 newNode->tableP1=NULL:
 newNode->tableP2=NULL;
 newNode->table1=relation:
 free(newNode);
 return newNode;
```

