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CIS341

Week2 Weekly Assignment

Prob1:

```
#include <stdio.h>
unsigned int getLast1byte(unsigned int hex){
    return("%02x", hex & 0x000000FF);
}
unsigned int getFirst3bytes(unsigned int hex){
    return("%02x", hex & 0xFFFFFF00);
}
void combineFirstThreeLastOne(hexa1,hexa2){
    printf("%02x", hexa1 | hexa2);
}
int main(){
    unsigned int hex1 , hex2;
    printf("Please enter first hex num: ");
    scanf("%X", &hex1);
    printf("\nPlease enter second hex num: ");
    scanf("%X", &hex2);
    printf("\nProblem 1 is:");
    combineFirstThreeLastOne(getFirst3bytes(hex1),getLast1byte(hex2));
    printf("\n");
}
```

Prob2:

```
#include <stdio.h>

int Qa(int x){
    return !!x;
}

int Qb(int x){
    return !x;
}

int Qc(int x){
    return !(x & 0xFF);
}
```

```
int Qd(int x){
    return !!(~x & 0xFF);
}

void main(){
    int w = sizeof(int) << 3;
    int eq1 = ~0;
    int eq2 = 0;
    int eq3 = 0xFF;
    int eq4 = 0xFF << (w - 8);
    (Qa(eq1));
    (Qb(eq2));
    (Qc(eq3));
    (Qd(eq4));
}
```

Prob3:

A: 0xC00E

B:0xFFFE