cpsc 1620 - Final exam review questions

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What is the output for the following program?

```
int f(int x) {
 switch(x+1) {
   case 1: case 3: case 5: return 2*x;
   case 0: case 2: case 4: return 2*x-1;
   default: return x;
int main() {
 cout << f(0) << f(1) << f(2) << f(3);
```

What is the output for the following program?

```
int f(int a, int &b) {
 a = a+b; b = 2*b;
 return a+b;
int q(int a, int b) {
 a = a+b; b = 2*b;
 return a+b;
int main() {
 int a=10;
 cout << f(a,a) << g(a,a);
```

Write the values for a, b, and c after each instruction:

```
a=5; b=6;

a = (b++) + 3;

c = 2*a + (++b);

b = 2*(++c) - (a++);
```

More exercises like this one at the end of Chapter 2.

Write the type and value for these expressions given that variable *a* is of type int and has value 0:

```
static_cast<float>(a = 5) / 2
(a += 10) * pow(4, 0.5)
(a = 3) == (2 < 4)
static_cast<unsigned char>(3.5)
0 >= 1 >= 2
-1 < 0 < 1
1 > 0 > -1
```