CS 120 Study Quiz Pre-midterm

1. What does the code below print out? Use the precedence chart to help you.

```
int a; int b; int c;

a = -1; b = 1; c = -1;
printf("%d", ++a || b++ && ++c);   a) ______________

printf("%d, %d, %d", a, b, c);     b) ______________

a = -1; b = 1; c = -1;
printf("%d", a++ && b++ || ++c);   c) ______________

printf("%d, %d, %d", a, b, c);     d) ______________
```

2. What does the code below print out? Use the precedence chart to help you.

```
int a = 4; int b = 3; int c = 0; int d = 1;

printf("%i", a > b > c);                 a) _________

printf("%i", a != !(b < c) > d);         b) _________

printf("%i", a + b >= d >= !!b == d);    c) _________
```

3. What does the code on the right print out?

```
int x = 4;
switch (x)
{
  case 1:
    printf("A");
    break;
  case 2:
    printf("B");
    break;
  case 3:
    printf("C");
  case 4:
    printf("D");
  default:
    printf("E");
}
```

4. What does the code on the right print out?

```
int x; int y = 2;
for (x = 5; y < x + 2; x++)
{
  y += x;
  printf("%d, %d\n", y, x);
}
printf("%d, %d\n", y, x);
```

5. What does the code on the right print out?

```
int a;
int b = 2;
for (a = 2; a < b + 5; b++, a = b + 2)
  printf("%i\n", a);
```

6. What does the code on the right print out?

```
int a = 0;
int b = 0;
while (a < 3)
{
  b -= a;
  a++;
}
printf("%i, %i\n", a, b);
```

7. What does the code on the right print out?

```
int a;
int b;
for (a = 5, b = 1; b <= a; a += 2)
  b += a - 2;

printf("%d, %d\n", b, a);
```

8. Given three files called **`main.c`** and **`file1.c`**, and **`file2.c`**, what is the single `gcc` command to compile and link the files to create an executable file named **`game.exe`**. You should include all of the command switches that are used to enable the maximum warnings that we've been using.