

CS 1428  
Quiz 2 Sections L01 and L06

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## Questions

1. List all of the LOGICAL operators:
2. List all of the RELATIONAL operators:
3. Write a single expression that tests that the variable *grade* is valid. (i.e. not less than zero or more than 100)
4. What would the result of this expression be?  
`((4 >= 4 && 8 < 1) || (44 == 33 || 5 > 3))`
  - (a) true
  - (b) false

5. What would the output of this code segment be?

```
int a = 5, b = 8, c = 18;

if (b > 18) {
    c -= a;
    b /= 2;
    if (b == c)
        cout << 2 * b;
    else
        cout << c / 2;
}
else if (b >= 5 && c/3 > a) {
    c /= 2;
    a += b;
    if (b < c)
        cout << (c - b) * 2;
    else
        cout << (b - c) * 2;
}
else {
    a *= 2;
    c /= 4;
    if (c < b)
        cout << a;
    else
        cout << a/b + c;
}
```

- (a) 2
- (b) 4
- (c) 7
- (d) 12

(AN UNMATCHED LEFT PARENTHESIS  
CREATES AN UNRESOLVED TENSION  
THAT WILL STAY WITH YOU ALL DAY.

Brains aside, I wonder how many poorly-written xkcd.com-parsing scripts will break on this title(or ;;““{<<[’this mouseover text”