Boolean Expressions: Compound && (AND) and || (OR) expressions

Compound **&&** (**AND**) and **||** (**OR**) expressions

(A) If you need to test that 2 conditions are BOTH true, there are two solutions:

   (1) **NESTED** IF statements:

```
 boolean answer = false;
  if (test1) {
      if (test2) {
          answer = true;
      }
  }
```

   (2) a **COMPOUND AND** (**&&**) expression:

```
  boolean answer = false;
  if (test1 && test2) {
      answer = true;
  }
```

(B) If you need to test that **EITHER** 1 condition **OR** a 2nd condition is true, there are two solutions:

   (1) **CASCADING** IF statements:

```
  boolean answer = false;
  if (test1) {
      answer = true;
  }

  if (test2) {
      answer = true;
  }
```

   (2) a **COMPOUND OR** (**||**) expression:

```
  boolean answer = false;
  if (test1 || test2) {
      answer = true;
  }
```