102-A03 Comparing 4 integers

Work to do

Write a program which prompts the user for 4 integers values to be stored in variables A , B , C and D. You will then display 3 messages on the screen (each by executing a printf statement) which will state the result of the comparison of the variables two by two.

Example(s)

A = **20**
B = **70**
C = **8**
D = **30**
Here are the comparisons I can make;
A (20) is < than B (70)
B (70) is > than C (8)
C (8) is < than D (30)

Hints

- The point of this exercise is for you to develop a consequent code using serially arranged IF statements
- You will end up with quite a few printf in each THEN or ELSE branches of your IF statements but only 3 will get executed each time you run your code.

Testing

Make sure your tests cover all possible **paths of execution** inside your code. In a program, like this one, where there are many THEN / ELSE branches, each run of the code will, depending on input value, only activate a few branches. Testing thoroughly your code means keeping track of which branches get executed for each test case. In addition to picking values which would make a bug apparent, you will therefore also have to make sure that your test-harness actually triggers all possible branches in your code. This is called code coverage by a test.

Input				Output	
A	B	C	D	**Expected**	**Observed**