

## Compare two Large Numbers

You will be given two numbers **A** and **B**. Your task is to print 1 if **A** < **B**, print 2 if **A** > **B** and print 3 if **A** = **B**.

### Input:

The first line of input contains a single integer **T** denoting the number of test cases. Then **T** test cases follow. Each test case consists of two lines. The first line of each test case contains an integer **A** and the second line of each test case contains an integer **B**. There might be leading zeros.

### Output:

Corresponding to each test case, in a new line, print 1, 2 or 3 accordingly if **A** < **B**, **A** > **B** or **A** = **B**.

### Constraints:

$$1 \leq T \leq 100$$

$$0 \leq A, B \leq 10^{155}$$

### Example:

#### Input

```
3
1234
12345
100
1
00999
100
```

## Output

1  
2  
2