

Mirror Number

A number is called a Mirror number if on lateral inversion, it gives the same number i.e it looks the same in a mirror. For example 101 is a mirror number while 100 is not.

Given two numbers a and b, find the number of mirror numbers in between them (inclusive of a and b).

Input

First line contains T, number of testcases $\leq 10^5$.

Each testcase is described in a single line containing two numbers a and b.

$0 \leq a \leq b \leq 10^{44}$

Output

For each test case print the number of mirror numbers between a and b in a single line.

Example

Input:

```
3
0 10
10 20
1 4
```

Output:

```
3
1
1
```