

4660 - A+B

Asia - Jakarta - 2009/2010

Given two integers A and B that are not necessarily in base-10, find the smallest possible A + B in base-10.

For example,

```
A = 213, possibly base-4 (39 in base-10)
B = 4721, possibly base-8 (2513 in base-10)
```

A + B = 39 + 2513 = 2552

Input

First line of the input contains a positive integer T ($1 \le T \le 100$), the number of cases. Each case contains two positive integers A and B. A and B will contain at most 5 digits, each digit will be between 0 and 9, inclusive, and no leading zeroes.

Output

For each case, output an integer in base-10 denoting the smallest possible A + B.

Sample Input

```
3
213 4721
1001 90
638 241
```

Sample Output

2552 99 592

Jakarta 2009-2010

4660 - A+B 1/1