Storage Woes

locked

by pruthvishalcodi1

Problem Submissions Leaderboard Discussions

Ashish wanted to paint a very long number n all across his wall, in his room. It has l digits. Turns out, he doesn't have enough wall to paint all l digits. As a compromise, Ashish decided to split the number into two non-empty parts so that each of them contains a positive integer without any leading zeros. He will then paint the sum of these two parts onto the wall. Ashish wants this sum to be the least possible sum of the two parts as there are higher chances of him fitting this sum onto the walls. Help him decide the sum.

Input Format

The first line contains the number of test cases, T In the following lines, the first line of every test case contains a single integer l - the length of Ashish's number. The second line of every test case contains the positive integer n - the number Ashish wants to paint on the walls. The integer n contains exactly l digits. It is guaranteed there is one valid way to split the number.

Constraints

- 1 <= T <= 10
- 2 <= l <= 1,00,000

Output Format

Print a single integer for every test case - the smallest number obtained after the sum

Sample Input 0

```
2
7
1234567
3
101
```

Sample Output 0

```
1801
11
```

Explanation 0

In the first case, 1234567 can be split as 1234 and 567 to give a sum of 1801. In the second case, 101 can't be split as 1 and 01. Therefore, the only valid split is 10 and 1 to give a sum of 11.

Submissions: 35
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Current Buffer (saved locally, editable) C++14

```
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

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