Description	My Submissions	Hints/Editorial	AC Submissions	My Notes (0)

Number & Sum of Digit

🔖   **?** Ask Doubt

⏱ Time-Limit: 1 sec   ✎ Score: 75.00/100   Difficulty : ★★

💾 Memory: 256 MB   ✔ Accepted Submissions: 100 Relevant For: | AZ-201 | AZ-202 | AZ-301 |

Description

You are given two integers N and S. Find the number of positive integers X less than equal to N, such that the difference between X and the sum of its digits (in decimal representation) is not less than S.

Input Format

The first line of input contains one integer T ($1 \le T \le 10^4$) — the number of test cases. Then T test cases follow.

The first line of each test case contains two space-separated integer N, S where 1<=N<=10^18, 0<=S<=10^18.

Output Format

For each test case print the number of positive integers X in a new line.

Sample Input 1

```
10
5 4
100 5
20 3
40 19
32 15
69 12
1000000000000000 0
1000000000000000000 10000000
9999999999999 9999999999882
13465751690089037 981448507916936
```

Sample Output 1

```
0
91
11
11
13
50
1000000000000000
999999999989999991
10
```

C++14[GCC] ▾

🔄 📋 ⬆   Submit

1