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Sum of palindromic numbers

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Problem Code: SPALNUM

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Read problems statements in Mandarin Chinese, Russian and <u>Vietnamese</u>

A number is called *palindromic* if its decimal representation is a palindrome. You are given a range, described by a pair of integers L and R. Find the sum of all palindromic numbers lying in the range [L, R], inclusive of both the extrema.

Input

The first line of the input contains an integer **T** denoting the number of test cases. The description of **T** test cases follows.

The first line of each test case contains a pair of space separated integers L and R denoting the range for which you are required to find the sum of the palindromic numbers.

Output

For each test case, output a single line containing the sum of all the palindromic numbers in the given range.

Constraints

- 1 ≤ T ≤ 100
- Subtask 1 (34 points) : $1 \le L \le R \le 10^3$ • Subtask 2 (66 points) : 1 ≤ L ≤ R ≤ 10⁵

Example

Input:

1 10

123 150

Output:

45 272

Explanation

Example case 1. The palindromic numbers between **1** and **10** are all numbers except the number 10. Their sum is 45.

Example case 2. The palindromic numbers between 123 and 150 are 131 and **141** and their sum is **272**.

All submissions for this problem are available.

Author: sergey_adm

2★ logic_iu Tester:

Editorial: https://discuss.codechef.com/problems/SPALNUM

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CodeChef was created as a platform to help programmers make it big in the world of algorithms, computer programming, and programming contests. At CodeChef we work hard to revive the geek in you by hosting a programming contest at the start of the month and two smaller programming challenges at the middle and end of the month. We also aim to have training sessions and discussions related to algorithms, binary search, technicalities like array size and the likes. Apart from providing a platform for programming competitions, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of computer programming.

Practice Section - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in the language of your choice. Our programming contest judge accepts solutions in over 55+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple programming challenges that take place through-out the month on CodeChef.

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FAQ's

Here is where you can show off your computer programming skills. Take part in our 10 days long monthly coding contest and the shorter format Cook-off and Lunchtime coding contests. Put yourself up for recognition and win great prizes. Our programming contests have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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Contest Hosting	<u>Hard</u>	College Chapters	Refund Policy
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