Added pairs equal   X93938_en

Write a program that reads a sequence of pairs of natural numbers x, y, and for each pair tells if the digits of x added two by two give y.

For example, if $x = 374655$ and $y = 10$, the sum of the first two digits (from the right) is $5 + 5 = 10$, the sum of the following two digits is also $4 + 6 = 10$, and finally the sum of the last digit pair $3 + 7$ also gives 10. Therefore, in this case the output should be "YES".

Your program MUST include the RECURSIVE function:

```
bool pairwise_sum(int x, int y);
```

which returns true if the condition described above is met and false otherwise.

Exam score: 3.000000 **Automatic part:** 100.000000%

Input

The input is a sequence of natural pairs. The first integer of each pair contains an even number of digits.

Output

For each input pair, you must write, in a line and following the format of the examples, whether or not the digits of x added in pairs give y.

Sample input 1	Sample output 1
374655 10	YES
22334455 12	NO
22 4	YES
11111111 2	YES

Sample input 2	Sample output 2
120321 3	YES
1432144150 5	YES
10 10	NO
11 1	NO

Observation

WARNING: Iterative solutions will be considered INVALID.

Problem information

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