

A. Buy a Shovel

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Polycarp urgently needs a shovel! He comes to the shop and chooses an appropriate one. The shovel that Polycarp chooses is sold for k burles. Assume that there is an unlimited number of such shovels in the shop.

In his pocket Polycarp has an unlimited number of "10-burle coins" and exactly one coin of r burles ($1 \leq r \leq 9$).

What is the minimum number of shovels Polycarp has to buy so that he can pay for the purchase without any change? It is obvious that he can pay for 10 shovels without any change (by paying the required amount of 10-burle coins and not using the coin of r burles). But perhaps he can buy fewer shovels and pay without any change. Note that Polycarp should buy at least one shovel.

Input

The single line of input contains two integers k and r ($1 \leq k \leq 1000$, $1 \leq r \leq 9$) — the price of one shovel and the denomination of the coin in Polycarp's pocket that is different from "10-burle coins".

Remember that he has an unlimited number of coins in the denomination of 10, that is, Polycarp has enough money to buy any number of shovels.

Output

Print the required minimum number of shovels Polycarp has to buy so that he can pay for them without any change.

Examples

input	Copy
117 3	
output	Copy
9	
input	Copy
237 7	
output	Copy
1	
input	Copy
15 2	
output	Copy
2	

Note

In the first example Polycarp can buy 9 shovels and pay $9 \cdot 117 = 1053$ burles. Indeed, he can pay this sum by using 10-burle coins and one 3-burle coin. He can't buy fewer shovels without any change.

In the second example it is enough for Polycarp to buy one shovel.

In the third example Polycarp should buy two shovels and pay $2 \cdot 15 = 30$ burles. It is obvious that he can pay this sum without any change.

Codeforces Round #377 (Div. 2).

Finished

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