## Weirdland

Time Limit: 1.0s Memory Limit: 256M

Şehmettin is the oddest person in the Weirdland who is currently living in the house $\mathbf{X}$. Being the unique person he is, he wants to live in a house with a house number that is divisible by $\mathbf{Y}$. But every day Şehmettin can either increase or decrease his house number by 1 according to the laws of Weirdland. Find the least number of days needed for Şehmettin to reach his goal.

## Input

The only line contains 2 positive integers:

- $1 \leq X \leq 10^{9}$ (his house number)
- $1 \leq Y \leq 1000$ (number divisor)


## Output

Print the minimum number of days needed.

## Example

Input:

85

## Output:

2

## Explanation

Şehmettin's house number is 8 . The closest multiple of 5 is 10 . On the 1 st day, Şehmettin's house number goes up to 9 . On the 2 nd day, Şehmettin's house number goes up to 10 . It takes 2 days in total to reach 10 .

