Şehmettin is the oddest person in the Weirdland who is currently living in the house $X$. Being the unique person he is, he wants to live in a house with a house number that is divisible by $Y$. 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:

```
8 5
```

Output:

```
2
```

**Explanation**

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