Prefix Digits

Time limit: 1.0s **Memory limit:** 128M

Sam is given two integers n and k. In one operation, he is allowed to prepend a digit d $(0 \leq d \leq 9)$ to n. As a servant of Sam, you are to determine if there exists a sequence of operations such that at the end n will be divisible by k.

To ensure the integrity of your solution, there may be up to t test cases.

Constraints

$1 \leq t \leq 10^5$

$1 \leq n, k \leq 10^9$

Input Specification

The first line contains an integer t, the number of test cases.

The first line of each test case contains 2 integers n and k.

Output Specification

For each test case, output `YES` if a sequence of operations exists such that n will be divisible by k, and `NO` otherwise.

Sample Input

```
1
6 4
```

Sample Output

```
YES
```

Explanation

For the first and only test case, with one operation, we can prepend 1 to 6 making it 16 which is divisible by 4.