## **Problem Description**

**Question 1-:** A positive integer d is said to be a factor of another positive integer N if when N is divided by d, the remainder obtained is zero. For example, for number 12, there are 6 factors 1, 2, 3, 4, 6, 12. Every positive integer k has at least two factors, 1 and the number k itself.Given two positive integers N and k, write a program to print the kth largest factor of N.

**Input Format:**The input is a comma-separated list of positive integer pairs (N, k).

**Output Format:**The kth highest factor of N. If N does not have k factors, the output should be 1.

**Constraints:**

* 1<N<10000000000
* 1<k<600.

You can assume that N will have no prime factors which are larger than 13.

**Example 1**

* **Input**: 12,3
* **Output**: 4

**Explanation:**N is 12, k is 3. The factors of 12 are (1,2,3,4,6,12). The highest factor is 12 and the third largest factor is 4. The output must be 4.

**Example 2**

* **Input**: 30,9
* **Output**: 1

**Explanation:**N is 30, k is 9. The factors of 30 are (1,2,3,5,6,10,15,30). There are only 8 factors. As k is more than the number of factors, the output is 1.

**Answer**

a,b=map(int,input().split(","))

c=[]

for i in range(1,a+1):

if a%i==0:

c.append(i)

print(c)

if len(c)<b:

print("1")

else:

print(c[b])

## **String Rotation**

**Question 2: Problem Description**

Rotate a given String in the specified direction by specified magnitude.

After each rotation make a note of the first character of the rotated String, After all rotation are performed the accumulated first character as noted previously will form another string, say **FIRSTCHARSTRING**.

Check If **FIRSTCHARSTRING** is an Anagram of any substring of the Original string.

If yes print "YES" otherwise "NO"**.**Input

The first line contains the original string s. The second line contains a single integer q. The ith of the next q lines contains character d[i] denoting direction and integer r[i] denoting the magnitude.

**Constraints**

1 <= Length of original string <= 30

1<= q <= 10

**Output**

YES or NO

**Explanation**

Example 1

Input

carrace

3

L 2

R 2

L 3

Output

NO

Explanation

After applying all the rotations the **FIRSTCHARSTRING** string will be "rcr" which is not anagram of any sub string of original string "carrace".

**Answer**

from collections import deque

word = "car"

commands = [('L',1),

('R', 1),

('L',2)

]

q = deque(word)

f\_char = ""

for direction, magnitude in commands:

if direction == 'L':

q.rotate(-magnitude)

else:

q.rotate(magnitude)

f\_char += q[0]

print(f\_char)

if "".join(sorted(f\_char)) in "".join(sorted(list(word))):

print('Yes')

else:

print('No')