**1.Prime Number:**

You are given an integer N. You need to print the series of all prime numbers till N.

**Input Format**

The first and only line of the input contains a single integer N denoting the number till where you need to find the series of prime number.

**Output Format**

Print the desired output in single line separated by spaces.

**Constraints**

1<=N<=1000

**Sample Input:**

9

**Sample Output:**

2,3,5,7

**2. Bricks Game**

**Patlu** and **Motu** works in a building construction, they have to put some number of bricks **N** from one place to another, and started doing their work. They decided , they end up with a fun challenge who will put the last brick.

They to follow a simple rule, In the **i**'th round, **Patlu** puts **i** bricks whereas **Motu** puts **ix2** bricks.

There are only **N** bricks, you need to help find the challenge result to find who put the last brick.

**Input:**

First line contains an integer **N**.

**Output:**

Output "**Patlu**" (without the quotes) if **Patlu** puts the last bricks ,"**Motu**"(without the quotes) otherwise.

**Constraints:**

1 ≤ N ≤ 10000

**Sample Input:**

13

**Sample Output:**

Motu

**Sample Explanation:**

13 bricks are there :

Patlu Motu

1 2

2 4

3 1 ( Only 1 remains)

Hence, Motu puts the last one.