Find the product

You have been given an array A of size N consisting of positive integers.

You need to find and print the product of all the number in this array Modulo 10^9+7.

In [4]:
```
def findproduct(n):
    answer=1
    l=[]
    for i in range (1,n+1):
        l.append(i)
    for j in l:
        answer=(answer*(j))%(10000000007)
    print(answer)
n=int(input())
findproduct(n)
```

```
1000
8553744896
```

Ali and innocent helping

He knows that a tag is valid if the sum of every two consecutive digits of it is even and its letter is not a vowel. Determine if the tag of the truck is valid or not.

Input Format

The first line contains a string of length 9. The format is "DDXDDD-DD", where D stands for a digit (non zero) and X is an uppercase english letter.

Output Format

Print "valid" (without quotes) if the tag is valid, print "invalid" otherwise (without quotes)

In [5]:
```
s=input()
c=8
for i in range(0,len(s)-1,1):
    if s[i].isdigit()==True and s[i+1].isdigit()==True:
        if (int(s[i])+int(s[i+1]))%2!=0:
            c=0
            print("invalid")
            break
    elif (s[i].isalpha()==True) and s[i]!="X" and s[i]!="B":
        if s[i]=="A" or "E" or "I" or "O" or "U" or "a" or "e" or "i" or "o"or "
            c=0
            print("invalid")
            break
if(c!=0):
    print("vaild")
```

```
12X345-99
invalid
```

Bricks Game

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.

In [6]:
```
# Brick gane
N=int(input())
t=0
for i in range(1,N):
    if(t==N):
        break
    t+=i
    a="Patlu"
    if(t==N):
        break
    t+=i*2
    a="Motu"
print(a)
```

```
5
Patlu
```

In [ ]:
```

```