1.def fact(n):

if(n==1 or n==0):

return 1

else:

return n\*fact(n-1)

n=int(input())

print(fact(n))

2.n=int(input())

for i in range(1,11):

print(n,"X",i,"=",n\*i)

3.a=int(input())

b=0

c=1

for i in range(a):

print(b,end=" ")

d=b+c

b=c

c=d

4.

n= int(input())

sum = 0

temp = n

while temp > 0:

digit = temp % 10

sum += digit \*\* 3

temp //= 10

if n== sum:

print("Armstrong number")

else:

print("not an Armstrong number")

5.a=int(input())

b=int(input())

for num in range(a,b+1):

ord=len(str(num))

sum=0

temp=num

while temp!=0:

digit=temp%10

sum+=digit\*\*ord

temp//=10

if num==sum:

print(num,end=" ")

6.def sum(n):

return n\*(n+1)/2

n=int(input())

print(sum(n))