1.a=int(input())

if a>0:

print("positive")

elif a<0:

print("negative")

else:

print("zero")

2.n=int(input())

if n%2==0:

print("even")

else:

print("odd")

3.a=int(input())

if a%4==0 and a%400==0:

print("leap year")

elif a%4==0 and a%100!=0:

print("leap year")

else:

print("not a leap year")

4.a=int(input())

if a%2!=0:

print("prime number")

else:

print("not a prime number")

5.

for i in range(2,10000):

c=0

for j in range(2,(i//2)+1):

if i%j==0:

c+=1

if c==0:

print(i,end=" ")