1. n=int(input())

sum=0

for i in range(1,n):

if((i%3==0)or(i%5==0)):

print(i," ")

sum=sum+i

print(sum)

2. n=int(input())

s=0

f=0

se=1

for i in range(2,n):

next=f+se

if(next<4000000 and next%2==0):

s=s+next

f=se

se=next

print(s-1)

3. n=600851475143

i=2

while(i\*i<n):

while(n%i==0):

n=n/i

i+=1

print(n)

4. l=[]

c=0

for i in range(100,1000):

for j in range(100,1000):

a=i\*j

if(str(a)==str(a)[::-1]):

l.append(a)

m=l[0]

for i in range(1,len(l)):

if(l[i]>m):

m=l[i]

print(m)

5. i=0

f=[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]

flag=0

while(i<9999999999 and flag==0):

i=i+(20\*19\*17)

l=[]

for j in range(1,21):

if(i%j==0):

l.append(1)

else:

l.append(0)

if l==f:

flag=1

print(i)

6. n=100

sum1=0

sum2=0

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

sum1=sum1+i\*\*2

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

sum2=sum2+i

s=sum2\*\*2

z=s-sum1

print(z)

7. def isprime(n):

if n>1:

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

if(n%i==0):

return 0

return 1

else:

return 0

l=[]

for j in range(2,999999):

if(isprime(j)==1):

l.append(j)

print(l[10000])

16. n=int(input())

p=1

s=0

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

p=p\*2

print(p)

while(p>0):

x=p%10

s=s+x

p=p//10

print("sum of digits of power is ",s)

10. n=int(input("enter the number:"))

s=0

for i in range(3,n+1):

flag=1

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

if flag==1:

if i%j==0:

flag=0

else:

flag=1

if flag==1 :

if(i<2000000):

s=s+i

print(s)

13. s=0

for i in range(0,100):

a=int(input())#euler doesn’t accept inputs xD. Remove text

s=s+a

print(s)

9. def py(a,b,c):

if(a\*\*2+b\*\*2==c\*\*2):

return 1

return 0

for i in range(100,1000):

for j in range(i+1,1000-i):

for k in range(j+1,1000-j):

a=py(i,j,k)

if(a==1 and i+j+k==1000):

print(i,j,k)

print(i\*j\*k)