str1='ABCDEFG'

str2='ate'

for l in str1:

print((l+str2),end=" ")

cubes=[]

for i in range(11):

cubes.append(i\*\*3)

print(cubes)

abc=[1,2,3,4,5,6,7,8,9,10]

sum=0

mean=0

for i in range(11):

sum+=i

mean=sum/10

print(sum)

print(mean)

abc=[1,2,3,4,5,6,7,8,9,10]

sum=0

for i in abc:

sum+=i

print(sum)

print(sum/len(abc))

a=[90,0,8,7]

print(max(a))

print(min(a))

print(sum(a))

#list predefined functions

ab=[0,-99,99,231,86]

print(sorted(ab))

ab.append(10)

print(ab)

print(ab.count(5))

print(ab.count(99))

ab.insert(3,100)

print(ab)

ab.remove(99)

print(ab)

#tower of hanoii

def hanoii(n,a,b,c):

if n>0:

hanoii(n-1,a,c,b)

if a:

c.append(a.pop())

hanoii(n-1,b,a,c)

a=[1,2,3,4]

b=[]

c=[]

hanoii(len(a),a,b,c)

print(a,b,c)

str=[1,2,3,4]

a=(len(str))

print(a)

f in ['a','e','i','o','u']

3 not in[0,2,4,6]

num=[1,2,3,4,5,6,7,8,9,10]

print(sum(num))

num.reverse()

print(num)

num=[10,-1,-9,2,8,5]

num.reverse()

print(num)

num.sort()

print(num)

num=['1','a','abc','2','B','Def']

num.sort()

print(num)

txt=['p','r','o','g','r','a','m']

txt[2:5]=[]

print(txt)

cubes=[i\*\*3 for i in range(11)]

print(cubes)

cubes=[i\*\*3 for i in range(11)];print(cubes)

num=[1,2,3,4]

it=iter(num)

for i in range(len(num)):

print("element at index",i,"is:",next(it))

n=int(input("enter the weight :"))

if n==0:

print("time estimated: 0 minutes")

elif n in range(1,2001):

print("time estimated: 25 minutes")

elif n in range(2001,4001):

print("time estimated: 35 minutes")

elif n in range(4001,7001):

print("time estimated: 45 minutes")

else:

print("overloaded")

val=int(input("enter the number:"))

x=0

y=0

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

if(i%2!=0):

x=x+7

print("the {} term is : {}".format(val,x-7))

else:

y=y+6

print("the {} term is : {}".format(val,y-6))