What output occurs for the following program with the given inputs?

theMax = int(input(“Give me the upper limit: “))

sum = 0

extra = 0 # Line 4

for num in range(1, theMax):

if num%2 and not num%3:

sum = sum + num

else:

extra += 1 #Line 1

print ( sum ) #Line 2

print ( extra ) #Line 3

Answer the following:

1. What is produced by line 2 when the input is 10?
2. What is produced by line 3 when the input is 11?
3. Which line could replace line 1
   1. extra++
   2. extra = + 1
   3. extra = extra + 1
   4. nothing, there isn’t another way to write this expression
4. Would the program still work if line 4 did not exist?

A = 10

B = 8

C = C

D = It would still ask for the input but after that an error would occur.

Based upon the following program code answer the questions below:

userString = “aabbcc”

subStr1 = userString[2:]

subStr2 = userString[1:4]

subStr3 = userString[:-2]

print (subStr1) #line 1

print(subStr2) # line2

print(SubStr3) #line 3

indxInt = 0

print( userString[indxInt], userString[indxInt+2]) # line 4

1. What output is produced by line 1
2. What output is produced by line 2
3. What output is produced by line 3
4. What output is produced by line 4

A = bbcc

B = abb

C = aabb

D = a b

Answer the questions based upon the following program:

myStr = input(“Input a string: “)

indxInt = 0

resultStr = ‘’ #empty string

while indxInt < (len(myStr – 1): # Line 1

if myStr[indxInt] > myStr[indxInt + 1]:

resultStr = resultStr + myStr[IndxInt]

else:

resultStr = resultStr \* 2

indxInt += 1 #Line2

print(resultStr) #Line3

Answer the following:

1. What output is produced by line 3 if the input is ‘abc’?
2. What output is produced by line 3 if the input is ‘cba’
3. What output is produced by line 3 if the input is ‘cab’.
4. What happens if line 2 is removed?
5. What happen if line 1 is changed to while indxInt < len(myStr): ?

A = It will print out nothing

B = cb

C = cc

D = It would run the program but nothing would print

E = Error will occur, saying that the string index is out of range