```
#_____________________CODING-QUESTIONS-2-CBT_____________________________#

#(1)
"""num = input("Enter a number => ")
count = 0
for i in range(len(num)):
    if num[i] in "0" and num[0] != 0:
        count = 1
        break
print("DN") if count == 1 else print("NDN")"""
#(2)
"""num = input("Enter a number => ")
sum = 0
for i in range(len(num)):
    sum += int(num[i])**2
print(sum)"""
#(3)
"""st = input("enter any string => ")
res_st = ""
for i in range(len(st)):
    if st[i] not in res_st:
        res_st += st[i]
print(res_st) """
#(4)
"""lst = eval(input("enter list of numbers => "))
print(max(lst))  """
# (5)
"""def prime(n):
    count = 0
    for i in range(2,n):
        if n % i == 0 :
            count = 1
            break
    if count == 0 : return True
    else : return False

num = int(input("enter a number => "))
if prime(num) == True and prime(int(str(num)[::-1])) == True :
    print(num,"is a twisted number")"""
# (5)
"""num = int(input("enter a number => "))
temp = 2
while True :
    if temp > num :
        break
    else :
        temp *= 2
```

```
print("The number is a Mersenne number") if temp - 1 == num else print("The
number is not a Mersenne number") """
# (6)
"""num = int(input("enter number => "))
temp = str(bin(num))
print(num," is an evil number.") if temp.count("1") % 2 == 0  else print(num,
"is not an evil number.")"""
# # (7)
# import random
# name = input("enter name => ")
# if len(name) > 4 :
#     temp = name[1:len(name)-1]
#     ch = random.shuffle(temp)
#     print(name[0]+ch+name[len(name)-1])
# else :
#     print("Name must be at least 4 characters long")
# (8)
"""st = input("enter a name => ")
if st[0] in "aeiouAEIOU":
    print(st+"way")
else :
    rs = ""
    for i in range(len(st)):
        if st[i] not in "aeiouAEIOU":
            rs += st[i]
        else :
            break
    print(st[len(rs):]+rs+"ay")  """

# (9) Rhyme Detector

# (10) Caesar Cipher

# (11) Balanced Parentheses
"""ab = input("enter syntax => ")
dt = {"(":")","{":"}","[":"]"}
if len(ab) % 2 == 0 :
    count = 0
    j = len(ab) - 1
    for i in range(len(ab)//2):
        if dt[ab[i]] == ab[j]:
            count += 1
        else :
            break
        j -= 1
    print("true") if count == len(ab)//2 else  print("false")
else :
    print("false")    """
```

```
#
# (13) Price Formatte
"""price = eval(input("enter price => "))
print( "$" + f"{price:.2f}")"""
# (14) Password Strength Checker
"""passw = input("enter your password => ")
l,u,n,s = 0,0,0,0
for i in range(len(passw)):
    if passw[i].islower() : l = 1
    elif passw[i].isupper() : u = 1
    elif passw[i].isnumeric() : n = 1
    elif passw[i] in "!@#$%^&*()_<>?/" : s = 1
if l == 1 and u == 1 and n == 1 and s == 1 and 8 < len(passw) < 10 :
    print("strong password")
else :
    print("weak password")"""

#_____________________CODING-QUESTIONS-4-CBT_____________________________#

# (1)
"""cp = int(input("enter cp => "))
sp = int(input("enter sp => "))
if cp < sp :
    print("profit")
    a = (( sp - cp ) / cp ) * 100
    print(f"{a:.2f}")
else :
    print("loss")
    a = (( cp - sp ) / cp ) * 100
    print(f"{a:.2f}")"""
# (2)
"""time = list(map(int,input().split() ))
if 4 <= time[0] <= 11 and 0 <=time[1] <= 59  : print("GOOD MORNING")
elif 12 <= time[0] <= 15 and 0 <=time[1] <= 59  : print("GOOD AFTERNOON")
elif 16 <= time[0] <= 20 and 0 <=time[1] <= 59  : print("GOOD EVENING")
else : print("GOOD NIGHT")"""
# (3)
# N,S,C,H,L,T
"""a = list(map(int,input().split()))
time =a[1]*a[2]*a[3] # (s*c*h)
left = (a[0] - a[5])*a[4] #(N - T)*L
if left > time :
    print("chalenge")
else:
    print("padenge")  """
# (4)
# N B G I D
"""a = list(map(int,input().split()))
```

```
anger = 0
anger = a[1]*a[3] - a[2]*a[4] # ( I - D )
if anger > 0:
    print("simple question")
else :
    print("funny question") """
# (5)
"""a = int(input("a = "))
b = int(input("b = "))
c = int(input("c = "))
if a + b == c : print("+")
elif a - b == c : print("-")
elif a * b == c : print("*")
elif a / b == c : print("/")
elif a // b == c : print("//")
elif a % b == c : print("%")
else : print("invalid data")"""
# (6)
"""a = int(input("u have => "))
b = int(input("first price => "))
c = int(input("second price => "))
d = int(input("third price => "))
print(a/b,a/c,a/d)"""
# ()
"""a = int(input("enter month => "))
if 1 <= a <= 12 :
    if a == 2 :
        print(28)
    elif str(a )in "135781012":
        print(31)
    else :
        print(30)
else :
    print("invalid month")  """
# ()
"""""t = int(input("total test case => "))
lst = []
for i in range(t):
    a = int(input("first angle => "))
    b = int(input("second angle => "))
    c = int(input("third angle => "))
    lst.append(a)
    lst.append(b)
    lst.append(c)

for i in range(t):
    if lst[i] + lst[i+1] + lst[i+2] == 180 :
        print("valid")
```

```
    else :
        print("invalid")  """

# ()
"""a = int(input("enter a number => "))
for i in range(1,a+1):
    if (i % 4 == 0 or i % 100 == 0 ) and i % 400 != 0 :
        print(i,end=" ")     """

# ()
"""a = int(input("enter a number => "))
b  = a
lst = []
for i in range(1,a+1):
    if b > 0 :
        if b % i == 0 :
            lst.append(i)
            b /= i
print(lst)

if sum(lst) == a :
    print(1)
else :
    print(0) """
```