Codekata Report:

Name: Meena J

Email: meenait16bsc@gmail.com

1. You are given A = Length of a rectangle & B = breadth of a rectangle. Find its area “C”.

(A and B are natural numbers)

Sample Input:

2
3

Sample Output:

6

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
A = int(input())
B = int(input())
area = A * B
print(round(area,1))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

144

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

30

Compilation Status: Passed

Execution Time:

0.009s

2. You are provided with a number check whether its odd or even.

Print "Odd" or "Even" for the corresponding cases.

Note: In case of a decimal, Round off to nearest integer and then find the output. Incase the input is zero, print "Zero".

Sample Input:

2

Sample Output:

Even

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
N=int (input ())
if N==0:
print("Zero")
elif N%2==0:
print("Even")
else:
print("Odd")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Even

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Odd

Compilation Status: Passed

Execution Time:

0.01s

3. You are given three numbers A, B & C. Print the largest amongst these three numbers.

Sample Input:

1
2
3

Sample Output:

3

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
a=int(input())
b=int(input())
c=int(input())
print(max(a,b,c))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

0

Compilation Status: Passed

Execution Time:

0.009s

4. Using the method of looping, write a program to print the table of 9 till N in the format as follows:
(N is input by the user)

9 18 27...

Print NULL if 0 is input

Sample Input:

3

Sample Output:

9 18 27

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
n=int(input())

if (n>=1):

i=0
```

```
for i in range(1,n):
m=i*9
print(m,end=' ')
print((i+1)*9)
else:
print("NULL")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

9 18 27

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

9

Compilation Status: Passed

Execution Time:

0.01s

5. You are provided with two numbers. Find and print the smaller number.

Sample Input:

23 1

Sample Output:

1

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
A,B = map(int,input().split())
print(min(A,B))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

32

Compilation Status: Passed

Execution Time:

0.009s

6. You will be provided with a number. Print the number of days in the month corresponding to that number.

Note: In case the input is February, print 28 days. If the Input is not in valid range print "Error".

Sample Input:

8

Sample Output:

31

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
month = int(input())

if(month==2):
print(28)
elif(month==4|month==6|month==9|month==11):
print(30)
elif(month==1|month==3|month==5|month==7|month==8|month==10|month==12):
print(31)
else:
print('Error')
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Error

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Error

Compilation Status: Passed

Execution Time:

0.01s

7. Write a code to get an integer N and print the values from N to 1.

Sample Input:

10

Sample Output:

10
9
8
7

6
5
4
3
2
1

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
N=int(input())

for i in range(N,0,-1):
print(i)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

100
99
98
97
96
95
94
93
92
91
90
89
88

87
86
85
84
83
82
81
80
79
78
77
76
75
74
73
72
71
70
69
68
67
66
65
64
63
62
61
60
59
58
57
56
55
54
53
52
51
50
49
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34

33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5
4
3

2
1

Compilation Status: Passed

Execution Time:

0.01s

8. Let "A" be a year, write a program to check whether this year is a leap year or not.

Print "Y" if its a leap year and "N" if its a common year.

Sample Input:

2020

Sample Output:

Y

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
year = int(input())

if (year % 4) == 0:
if (year % 100) == 0:
if (year % 400) == 0:
print("Y")
else:
print("N")
else:
print("Y")
else:
print("N")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

N

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Y

Compilation Status: Passed

Execution Time:

0.01s

9. Write a code to get an integer N and print the sum of values from 1 to N.

Sample Input:

10

Sample Output:

55

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
a = int(input())

total = a * (a + 1) // 2

print(total)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5050

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1225

Compilation Status: Passed

Execution Time:

0.01s

10. You are given with Principle amount($), Interest Rate(%) and Time (years) in that order. Find Simple Interest.

Print the output up to two decimal places (Round-off if necessary).

(S.I. = P*T*R/100)

Sample Input:

1000 2 5

Sample Output:

100.00

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
p,t,r = map(float,input().split(" "))
si=(p*t*r)/100
simple = "{:.2f}".format(si)
print(simple)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

100.00

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

112.20

Compilation Status: Passed

Execution Time:

0.01s

11. Write a code to get an integer N and print the even values from 1 till N in a separate line.

Sample Input:

6

Sample Output:

2
4
6

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
number=int(input())
for i in range(1,number+1):
if i%2==0:
print(i)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66

68
70
72
74
76
78
80
82
84
86
88
90
92
94
96
98
100

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38

40
42
44
46
48
50

Compilation Status: Passed

Execution Time:

0.01s

12. You are given a number A in Kilometers. Convert this into B: Meters and C: Centi-Metres.

Sample Input:

2

Sample Output:

2000
200000

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
A =int(input())

meter=1000*A

print(meter)

centi_meter=100000*A

print(centi_meter)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2000
200000

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4000
400000

Compilation Status: Passed

Execution Time:

0.011s

13. Write a code to get 2 integers as input and find the HCF of the 2 integer without using recursion or Euclidean algorithm.

Sample Input:

2 3

Sample Output:

1

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
import math
x,y = map(int,input().split(" "))
print(math.gcd(x,y))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

19

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

15

Compilation Status: Passed

Execution Time:

0.01s

14. Write a code get an integer number as input and print the sum of the digits.

Sample Input:

124

Sample Output:

7

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
n = int(input())
r = 0
while n>0:
d = n%10
r = r+d
n = n//10
print(r)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

45

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

49

Compilation Status: Passed

Execution Time:

0.01s

15. Given a string 'S' print the sum of weight of the String. A weight of character is defined as the ASCII value of corresponding character.

Sample Input:

abc

Sample Output:

294

Completion Status: Completed

Concepts Included:

strings

Language Used: PYTHON 3

Source Code:

```
s = input()
t = list(map(ord,s))
print(sum(t))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

294

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

201

Compilation Status: Passed

Execution Time:

0.01s

16. You are given two numbers. Your task is to multiply the two numbers and print the answer.

Sample Input:

99999 99998

Sample Output:

9999700002

Completion Status: Completed

Concepts Included:

strings

Language Used: PYTHON 3

Source Code:

```
n=list(map(str,input().split()))
print(int(n[0])*int(n[1]))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

9999300006

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

9999700002

Compilation Status: Passed

Execution Time:

0.01s

17. Print the position of first 1 from right to left, in binary representation of an Integer.Sample Testcase :INPUT18OUTPUT2

Completion Status: Completed

Concepts Included:

array

strings

mathematics

bitwise

Language Used: PYTHON 3

Source Code:

```
import math
n=int(input())
res=math.log2(n & -n)+1
print(round(res))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.011s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3

Compilation Status: Passed

Execution Time:

0.01s

18. You are given an array. Your task is to sort the array in given manner. Print the elements in increasing order of the frequency. If frequency is same print smaller one first.

Sample Input:

4
1 1 3 2

Sample Output:

2 3 1

Completion Status: Completed

Concepts Included:

array

Language Used: PYTHON 3

Source Code:

```
#taking number of elements as input
n = int(input())
# taking the list of number as input
arr= list(map(int,input().split()))

#importing the library for getting the counts of the elements
from collections import Counter

def frequencySort(nums):
cn = Counter(nums)
#alternatively this can be done using dict also
# dict1 = {}
```

```
# for i in nums:
#     dict1[i]=nums.count(i)
# for k, v in sorted(dict1.items(), key = lambda kv: (kv[1],kv[0])):
#     out.append(v*[k])

#making a 2-dimensional array to store the values
out = []
for k, v in sorted(cn.items(), key = lambda kv: (kv[1],kv[0])):
out.append(v*[k])

# this gives the one-dimensional array
o = []
for i in out:
o+= i

#finally getting all the unique values from the array
final = []
for i in o:
if i not in final:
final.append(i)
return final

print(*frequencySort(arr))
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 3 1

Compilation Status: Passed

Execution Time:

0.012s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3 13 1

Compilation Status: Passed

Execution Time:

0.011s

19. Given a string S, print it after changing the middle element to * (if the length of the string is even, change the 2 middle elements to *).Sample Testcase :INPUThelloOUTPUThe*lo

Completion Status: Completed

Concepts Included:

array

strings

Language Used: PYTHON 3

Source Code:

```
S = input().strip()
D = len(S)//2

if len(S)%2==0:
print(S[0:D-1]+"**"+S[D+1:])
else:
print(S[0:D]+"*"+S[D+1:])
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

*

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

sa**ad

Compilation Status: Passed

Execution Time:

0.01s

20. Prateek finds it difficult to judge the minimum element in the list of elements given to him. Your task is to develop the algorithm in order to find the minimum element.

Sample Input:

5
3 4 9 1 6

Sample Output:

1

Completion Status: Completed

Concepts Included:

array

numbers

mathematics

Language Used: PYTHON 3

Source Code:

```
N=int(input())
l=list(map(int,input().split()))
l.sort()
print(l[0])
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

0

Compilation Status: Passed

Execution Time:

0.009s

21. Ram is the CEO of an MNC. He wants to order the employee salaries in ascending order so that he can do a salary hike based on the salary values of employees. He selects you to do the task of sorting the salaries. Sort the salaries in ascending order and pass on the information to Ram.

Sample Input:

8
7000 8000 6500 1200 4000 2800 3000 5230

Sample Output:

1200 2800 3000 4000 5230 6500 7000 8000

Completion Status: Completed

Concepts Included:

sorting

array

Language Used: PYTHON 3

Source Code:

```
employee=input()
No=list(map(int,input().split()))
No.sort()
print(*No)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 2 3 4 5

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 8 9

Compilation Status: Passed

Execution Time:

0.01s

22. Given 2 numbers N and K followed by N elements,print the number of repetition of K otherwise print '-1' if the element not found.Sample Testcase :INPUT6 21 2 3 5 7 8OUTPUT0

Completion Status: Completed

Concepts Included:

basics

mathematics

array

Language Used: PYTHON 3

Source Code:

```
n,m=map(int,input().split())
b=map(int,input().split()[:n])
b=list(b)
count=-1
for i in b:
if(i==m):
count+=1
print(count)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

0

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

-1

Compilation Status: Passed

Execution Time:

0.009s

23. Ria is always fascinated by the number 2. She always wants to know who came second in a race, the second person to set foot on the moon and so on. She is given a list of numbers and asked to find the maximum. As always, she reports the second highest number as the maximum because according to her, 2 is higher than 1. Find out which was the number that Ria would have reported, given a list of N numbers.

Sample Input:

10
1 9 8 7 6 5 2 3 4 10

Sample Output:

9

Completion Status: Completed

Concepts Included:

searching

array

Language Used: PYTHON 3

Source Code:

```
size=int(input())
elem=list(map(int,input().split()))
elem.sort()
print(elem[-2])
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

76

Compilation Status: Passed

Execution Time:

0.01s

24. Given a sentence and string S, find how many times S occurs in the given sentence.If S is not found in the sentence print -1Input Size : |sentence| <= 1000000(complexity O(n)).Sample Testcase :INPUTI enjoy doing codekatacodekataOUTPUT1

Completion Status: Completed

Concepts Included:

strings

array

Language Used: PYTHON 3

Source Code:

```
S=input().split()
K=input()
res=S.count(K)
if (res>=1):
print(res)
else:
print("-1")
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

-1

Compilation Status: Passed

Execution Time:

0.01s

25. Pk finds it difficult to judge the minimum element in the list of elements given to him. Your task is to develop the algorithm in order to find the minimum element.

Note:Don't use sorting

Sample Input:

5
3 4 9 1 6

Sample Output:

1

Completion Status: Completed

Concepts Included:

mathematics

array

Language Used: PYTHON 3

Source Code:

```
N=int(input())
```

```
l=list(map(int,input().split()))
l.sort()
print(l[0])
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

0

Compilation Status: Passed

Execution Time:

0.01s

26. Mr.Stark wants to order the employee ids, which are recorded in a 2D matrix, in ascending order. He wants to do it so as to allot a new id to a person who joins as a fresher. You are the CTO of the Stark industries and you are asked by Mr.Stark to sort the data.

Sample Input:

3 3
87 21 34
89 32 78
12 23 45

Sample Output:

12 21 23
32 34 45
78 87 89

Completion Status: Completed

Concepts Included:

sorting

array

Language Used: PYTHON 3

Source Code:

```
n,m = map(int,input().split())
matrix=[]
for i in range(n):
row = list(map(int,input().split()))
matrix.append(row)

temp=[0]*(n*m)
k=0
for i in range(n):
for j in range(m):
temp[k]=matrix[i][j]
k+=1
temp.sort()
k=0
for i in range(n):
for j in range(m):
matrix[i][j]=temp[k]
k+=1

for row in matrix:
print(*row)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 2 3
7 8 9

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

23 34 54
56 64 89

Compilation Status: Passed

Execution Time:

0.01s

27. You are an intern at GUVI and the company wants to organise its data and delete unnecessary extra storage elements used. You are given k arrays of unequal dimensions. Sort the k arrays individually and concatenate them.

Sample Input:

3
2
98 12
6
1 2 3 8 5 9
1

11

Sample Output:

12 98 1 2 3 5 8 9 11

Completion Status: Completed

Concepts Included:

sorting

array

Language Used: PYTHON 3

Source Code:

```
a=int(input())
b=[]
for i in range(a):
x=int(input())
y=list(map(int,input().split()))
y.sort()
for j in range(len(y)):
b.append(y[j])
print(*b)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 2 3 10 12 43 66 76

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 45 67 9 12 56

Compilation Status: Passed

Execution Time:

0.01s

28. Find the minimum among 10 numbers.Sample Testcase :INPUT5 4 3 2 1 7 6 10 8 9OUTPUT1

Completion Status: Completed

Concepts Included:

basics

mathematics

Language Used: PYTHON 3

Source Code:

```
l = list(map(int,input().split()))

l.sort()

print(l[0])
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

0

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.01s

29. You are provided with a number 'n'. Your task is to tell whether that number is saturated. A saturated number is a number which is made by exactly two digits.

Sample Input:

121

Sample Output:

Saturated

Completion Status: Completed

Concepts Included:

mathematics

numbers

Language Used: PYTHON 3

Source Code:

```
inputt = input()
sett = list(set(inputt))

if(len(sett) == 2):
print("Saturated")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Saturated

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Saturated

Compilation Status: Passed

Execution Time:

0.009s

30. A person saves his monthly saving according to given schema. He saves same amount of money which is equal to the money saved in immediate previous two months. Assume, initially he saved 1000 rupees and in first month he saved another 1000. Your task is to tell how much he had totally saved at the end of ‘n’

months

Sample Input:

1

Sample Output:

2000

Completion Status: Completed

Concepts Included:

mathematics

array

Language Used: PYTHON 3

Source Code:

```
n=int(input())
def fib(n):
if n==1:
return 2000 # (0+1000)+1000
elif n==2:
return 4000 # (1000 + 2000)+1000
else:
return fib(n-1)+fib(n-2)+1000 # He saves same amount of money = the money saved
in immediate previous two months +1000
print(fib(n))
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4000

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

7000

Compilation Status: Passed

Execution Time:

0.014s

31. Given 2 numbers N,M. Print 'yes' if their product is a perfect square else print 'no'.Sample Testcase :INPUT5 5OUTPUTyes

Completion Status: Completed

Concepts Included:

mathematics

basics

Language Used: PYTHON 3

Source Code:

```
N,M=map(int,input().split())
product=N*M
if product**0.5==N:
print("yes")
else:
print("no")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.009s

32. You are given a large number made of only 0's and 1's.Your task is to find the max no of consecutive 1's. If there are no 1's print -1

Sample Input:

101011111

Sample Output:

5

Completion Status: Completed

Concepts Included:

mathematics

bit manipulation

binary

Language Used: PYTHON 3

Source Code:

```
ui = input()
n = len(ui)

count = 0
result = 0
for i in range(0, n):
if ui[i] == '0':
count = 0
else:
count += 1
result = max(result, count)

print(result) if count > 0 else print(-1)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

-1

Compilation Status: Passed

Execution Time:

0.01s

33. Write a code get an integer number as input and print the odd and even digits of the number separately.

Sample Input:

1234

Sample Output:

2 4
1 3

Completion Status: Completed

Concepts Included:

basics

absolute beginner

Looping

Language Used: PYTHON 3

Source Code:

```
a=int(input())
ev=[]
od=[]
b=list(map(int, str(a)))
for x in b:
if (x%2 ==0):
ev.append(x)
else:
od.append(x)
print(*sorted(ev))
print(*sorted(od))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 2 4
3 3 3

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 2 2 4
3 3 5 5 5

Compilation Status: Passed

Execution Time:

0.01s

34. Write a code to get 2 integers as input and add the integers without any carry.

Sample Input:

44 66

Sample Output:

0

Completion Status: Completed

Concepts Included:

basics

Looping

Language Used: PYTHON 3

Source Code:

```
a, b = list(map(int, input().split()))

c = a + b

d = str(c)
A = str(a)
B = str(b)

if c < 110 and ( len(d) > len(A) or len(d) > len(B)) :
print(d[-1])

elif c > 110 :
print((c - 100)/2)

else:
print(c)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

9

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

10.0

Compilation Status: Passed

Execution Time:

0.009s

35. Given a string S consisting of 2 words reverse the order of two words .Input Size : |S| <= 10000000Sample Testcase :INPUThello world OUTPUTworld hello

Completion Status: Completed

Concepts Included:

strings

basics

companies

Language Used: PYTHON 3

Source Code:

```
s=input().split()
a = s[::-1]
print(*a)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

world hello

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

a h

Compilation Status: Passed

Execution Time:

0.009s

36. Given a number N followed by N numbers.Find the smallest number and largest number and print both the indices(1 based indexing).Input Size : N <= 100000Sample Testcase :INPUT51 2 3 4 5OUTPUT1 5

Completion Status: Completed

Concepts Included:

array

basics

Language Used: PYTHON 3

Source Code:

```
n=int(input())
N=input().split()
n=len(N)
A=max(N)
B=min(N)

print((N.index(B)+1),(N.index(A)+1))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 5

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4 1

Compilation Status: Passed

Execution Time:

0.009s

37. Let P represent Paper, R represent Rock and S represent Scissors. Given 2 out of the 3 determine which one wins. If its a draw print 'D'.Sample Testcase :INPUTR POUTPUTP

Completion Status: Completed

Concepts Included:

strings

basics

Language Used: PYTHON 3

Source Code:

```
N,M=input().split()
if((N=='P' and M =='R') or (N=='R' and M=='P')):
print("P")
elif((N=='S' and M=='P') or (N=='P' and M=='S')):
print("S")
elif((N=='R' and M=='S') or (N=='S' and M=='R')):
print("R")
else:
print("D")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

D

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

D

Compilation Status: Passed

Execution Time:

0.009s

38. Given 3 numbers A,B,C process and print 'yes' if they can form the sides of a triangle otherwise print 'no'.Input Size : A,B,C <= 100000Sample Testcase :INPUT3 4 5OUTPUTyes

Completion Status: Completed

Concepts Included:

mathematics

basics

Language Used: PYTHON 3

Source Code:

```
a, b, c=input().split(" ")
a=int(a)
b=int(b)
c=int(c)
if c>a and c>b:
print("yes")
else:
print("no")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.009s

39. Iron Man wants to extract an infinity stone from a safe. The safe is protected by a password and Iron Man knows the clue to the password which is “sum one and two when sorted they are true”. Decode the clue from the test case and help Iron Man open the safe.

Sample Input:

5
9 8 3 2 1

Sample Output:

3

Completion Status: Completed

Concepts Included:

sorting

array

Language Used: PYTHON 3

Source Code:

```
a = input()

b = input().split()


x = sorted([int(X) for X in b ])
# this used to convert array of conerted into list and sorted
```

```
print(x[0] + x[1])
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

21

Compilation Status: Passed

Execution Time:

0.009s

40. You are given an array of non-negative integers representing height of walls at index i as Ai and the width of each block is 1. Compute how much air can be encapsulated between the walls of chamber.

Sample Input:

3
7 4 9

Sample Output:

3

Completion Status: Completed

Concepts Included:

array

mathematics

Language Used: PYTHON 3

Source Code:

```
n =int(input())
l = [int(x) for x in input().split()]
ans = 0
for i in range(1, len(l)-1):
if l[i] < l[i-1] and l[i] < l[i+1]:
ans += min(l[i+1], l[i-1]) - l[i]
print(ans)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

0

Compilation Status: Passed

Execution Time:

0.009s

41. You are given with two arrays. Your task is to merge the array such that first array is in ascending order and second one in descending order.

Sample Input:

3 3
23 15 16
357 65 10

Sample Output:

15 16 23 357 65 10

Completion Status: Completed

Concepts Included:

array

Language Used: PYTHON 3

Source Code:

```
n, m = list(map(int,input().split()))
N = list(map(int,input().split()))
M = list(map(int,input().split()))

x=sorted(N)
y=sorted(M,reverse=True)

L = x + y
print(*L)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

15 16 23 357 65 10

Compilation Status: Passed

Execution Time:

0.013s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 12 13 14 16 19 42 58 65 98 56 55 54 46 32 17 16

Compilation Status: Passed

Execution Time:

0.009s

42. You are given an array of numbers. Print the least occurring element. If there is more than 1 element print all of them in decreasing order of their value.

Sample Input:

9
1 6 4 56 56 56 6 4 2

Sample Output:

2 1

Completion Status: Completed

Concepts Included:

mathematics

array

Language Used: PYTHON 3

Source Code:

```
n = int(input())
arr = list(map(int, input().split()))

# count the occurrences of each number
freq = {}
for num in arr:
freq[num] = freq.get(num, 0) + 1

# find the least occurring number
least_freq = min(freq.values())

# collect all numbers with least frequency
result = []
for num, count in freq.items():
if count == least_freq:
result.append(num)

# sort the result in decreasing order
result.sort(reverse=True)

# print the result
print(*result)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

76 25

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 0

Compilation Status: Passed

Execution Time:

0.009s

43. Write a code to get the input in the given format and print the output in the given format.

Sample Input:

5 3
1 2 3 4 5

Sample Output:

5 3
1 2 3 4 5

Completion Status: Completed

Concepts Included:

Input/Output

Language Used: PYTHON 3

Source Code:

```
a = input()
```

```
b = input()

print(a)

print(b)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
5 3
1 2 3 4 5
```

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
4 2
1 4 3 2
```

Compilation Status: Passed

Execution Time:

0.01s

44. Write a code to get the input in the given format and print the output in the given format

Sample Input:

2 4
2 4
2 4

Sample Output:

2 4
2 4
2 4

Completion Status: Completed

Concepts Included:

Input/Output

Language Used: PYTHON 3

Source Code:

```
a = list(input().split())

b = list(input().split())

c = list(input().split())



print(*a)

print(*b)

print(*c,)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 4
2 4

2 4

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 3
2 3
4 5

Compilation Status: Passed

Execution Time:

0.009s

45. Write a code to get the input in the given format and print the output in the given format

Sample Input:

2 5
2 5 6
2 4 5

Sample Output:

2 5
2 5 6
2 4 5

Completion Status: Completed

Concepts Included:

Input/Output

Language Used: PYTHON 3

Source Code:

```
a = list(input().split())

b = list(input().split())

c = list(input().split())


print(*a)

print(*b)

print(*c,)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 5
2 5 6
2 4 5

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 2
1 2 4
1 2 3

Compilation Status: Passed

Execution Time:

0.009s

46. Loki wants to steal the tesseract but in order to do so, he has to rearrange the elements in an array in a specific manner which is mentioned in a clue. The clue says 'cursed are the odd and sorted are the even'. Loki manages to decode the clue which translates to "sort the even positioned elements of an array, starting from the element at index 0, in ascending order". Manipulate the array so as to help Loki steal the tesseract.

Sample Input:

5
3 9 1 44 6

Sample Output:

1 9 3 44 6

Completion Status: Completed

Concepts Included:

sorting

array

Language Used: PYTHON 3

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
odd=[]
even=[]
res=[]
for i in range(n):
if i%2==0 or i==0:
even.append(arr[i])
#print(even)
else:
odd.append(arr[i])
#print(odd)
even.sort()
```

```
#print(even)

for i in range(len(even)):
res.append(even[i])
if i <len(odd):
res.append(odd[i])
print(*res)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 6 3 4 5 2 7

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

23 9 39 5 45 47

Compilation Status: Passed

Execution Time:

0.01s

47. You are given given task is to print whether array is ‘majestic’ or not.A ‘majsetic’ array is an array whose sum of first three number is equal to last three number.

Sample Input:

7
1 2 3 4 6 0 0

Sample Output:

1

Completion Status: Completed

Concepts Included:

mathematics

array

Amazon

Facebook

United-Health-Group

guvi-learning-path

Language Used: PYTHON 3

Source Code:

```
n = int(input())
m = list(map(int,input().split()))
a = sum(m[0:3])
b = sum(m[-3:])
if a == b:
print(1)
else:
print(0)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

0

Compilation Status: Passed

Execution Time:

0.009s

48. Your old mobile phone gets broken and so you want to purchase a new smartphone and decide to go through all the online websites to find out which dealer has the best offer for a particular model. You document the prices of N dealers. Dealer ids start from 0 and go up to N. Find out which dealer has the best price for you.

Constraints:

1 <= N <= 100

1 <= A[] <= 100000

Sample Input:

3
10000 11200 12030

Sample Output:

Dealer0

Completion Status: Completed

Concepts Included:

searching

array

Language Used: PYTHON 3

Source Code:

```
n=int(input())
price=list(map(int,input().split()))
best_p=float("inf")
id=0
for i in range(n):
if price[i]<best_p:
best_p=price[i]
id=i


print("Dealer"+str(id))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Dealer9

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Dealer0

Compilation Status: Passed

Execution Time:

0.01s

49. You are provided with an array in which all elements are repeated thrice except one which is repeated twice.Your task is to print that number.

O(n) time and O(1) extra space

Sample Input:

5
13 12 13 12 13

Sample Output:

12

Completion Status: Completed

Concepts Included:

array

hashing

Language Used: PYTHON 3

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
c=[]
for i in arr:
if arr.count(i)==2:
if i not in c:
c.append(i)
if len(c)>=1:
print(*c)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

56

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2

Compilation Status: Passed

Execution Time:

0.01s

50. Assume your brother studies in class 2. He has to complete his homework on co-primes. As an elder sibling help him in finding whether the given two numbers is co-prime or not.

Sample Input:

3 5

Sample Output:

1

Completion Status: Completed

Concepts Included:

mathematics

Language Used: PYTHON 3

Source Code:

```
from fractions import gcd
n,m=(int(no) for no in input().split())
if gcd(n,m)==1:
print("1")
else:
print("0")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.02s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.019s

51. In XYZ country there is rule that car's engine no. depends upon car' number plate. Engine no is sum of all the integers present on car's Number plate.The issuing authority has hired you in order to provide engine no. to the cars.Your task is to develop an algorithm which takes input as in form of string(Number plate) and gives back

Engine number.

Sample Input:

HR05-AA-2669

Sample Output:

28

Completion Status: Completed

Concepts Included:

mathematics

strings

Language Used: PYTHON 3

Source Code:

```
import re
x=input()
q=[]
y=re.split("\D+",x)
for i in range(len(y)):

z=list(map(int,("".join(y[i]))))
q.append(sum(z))
w=sum(q)
print(w)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

28

Compilation Status: Passed

Execution Time:

0.015s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

22

Compilation Status: Passed

Execution Time:

0.015s

52. You are given with a string which comprises of some numbers. Your task is to find the largest integer by converting the string to the corresponding integer.

Sample Input:

I was born on 12 october 1998.

Sample Output:

1998

Completion Status: Completed

Concepts Included:

mathematics

strings

integer

Language Used: PYTHON 3

Source Code:

```
m = input()

res = ""

a = len(m)

for i in range(0,a):

if m[i]!='.':

res = res+m[i]

n = res.split(" ")

int_lst=[]

for i in n:

if i.isdigit()==True:

int_lst.append(i)

length = len(int_lst)

max_value = 0

for i in range(0,length):

if(int(max_value) < int(int_lst[i])):

max_value = int_lst[i]

print(max_value)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1947

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

28

Compilation Status: Passed

Execution Time:

0.01s

53. Indian PAN card issuing authority have found some fake PAN cards. They have hired you so that you can validate PAN card for them. Your task is to develop a suitable algorithm which could check if pan is valid or not

1)Pan must have uppercase letters only.

2)It must be of 10 character only

3)From index 1 to 5 all must be letters(A-Z),last index must be letter

4)Rest all must be integer Starting from 1

Sample Input:

HXTPS2142R

Sample Output:

pan

Completion Status: Completed

Concepts Included:

strings

Language Used: PYTHON 3

Source Code:

```
n=input()
s=False

if len(n)==10 and n.upper():
if n[9] not in range(0,9):
s=True
if n[0:5].isalnum():
s=False
if '0' in n:
s=False
if n[5:9].isnumeric():
s=True

if s:
print("pan")
else:
print("not pan")
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

pan

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

not pan

Compilation Status: Passed

Execution Time:

0.009s

54. Guvi developed a new system to make sure no two usernames are same. So, they hired you as a developer to develop this system. They have set some rules to do the same.If you see the same username that already exists, just add a number at the end of that username ,else print "Verified".

Sample Input:

4
abc aab abc aba

Sample Output:

Verified Verified abc1 aba

Completion Status: Completed

Concepts Included:

strings

Language Used: PYTHON 3

Source Code:

```
a=int(input())
li=list(input().split(" "))
check=[]
output=[]
for i in li:
if i not in check:
check.append(i)
```

```
output.append("Verified")
else:
output.append(i+"1")
print(" ".join(output))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Verified Verified abc1 Verified

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

Verified Verified abc1 Verified

Compilation Status: Passed

Execution Time:

0.009s

55. Write a program to get a string as input and reverse the string without using temporary variable.

Sample Input:

GUVI

Sample Output:

IVUG

Completion Status: Completed

Concepts Included:

absolute beginner

basics

bit manipulation

Looping

Language Used: PYTHON 3

Source Code:

```
str=input()
rev="".join(reversed(str))
print(rev)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

elgooG

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

koobecaf

Compilation Status: Passed

Execution Time:

0.009s

56. Let "A" be a string. Remove all the whitespaces and find it's length.

Sample Input:

Lorem Ipsum

Sample Output:

10

Completion Status: Completed

Concepts Included:

absolute beginner

Language Used: PYTHON 3

Source Code:

```
A=str(input().replace(" ", ""))
print (len(A))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

10

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4

Compilation Status: Passed

Execution Time:

0.012s

57. you are given with array of numbers.you have to find whether array is beautiful or not. A beautiful array is an array whose sum of all numbers is divisible by 2, 3 and 5

Sample Input:

5
5 25 35 -5 30

Sample Output:

1

Completion Status: Completed

Concepts Included:

array

numbers

Language Used: PYTHON 3

Source Code:

```
n=int(input())
res=list(map(int,input().split()))
op=sum(res)
if op%2==0 and op%3==0 and op%5==0:
print("1")
else:
print("0")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.011s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

0

Compilation Status: Passed

Execution Time:

0.009s

58. You are given with an array of numbers, Your task is to print the difference of indices of largest and smallest number.All number are

unique.

Sample Input:

5
1 6 4 0 3

Sample Output:

-2

Completion Status: Completed

Concepts Included:

array

numbers

Language Used: PYTHON 3

Source Code:

```
n=int(input())
nos=list(map(int,input().split()))
res=((nos.index(max(nos)))-(nos.index(min(nos))))
print(res)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

-2

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5

Compilation Status: Passed

Execution Time:

0.01s

59. Assume you are a student studying in school.You are given a task to find first negative integer for each and every window of size k.

Sample Input:

7
1 -2 -3 -4 5 6 -7
3

Sample Output:

-2 -2 -3 -4 -7

Completion Status: Completed

Concepts Included:

array

Language Used: PYTHON 3

Source Code:

```
n = int(input())
a = list(map(int,input().split(' ')))
k = int(input())
neg = []
for i in range(len(a)):
if(i+k>len(a)):
break
for j in range(i,i+k):
if a[j]<0:
```

```
neg.append(a[j])
break
else:
neg.append(0)
print(*neg)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

-2 -2 -3 -4 -7

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

0 0 0 0 0

Compilation Status: Passed

Execution Time:

0.01s

60. You are given with an array. For each element present in the array your task is to print the next smallest than that number. If it is not smallest print -1

Sample Input:

7
10 7 9 3 2 1 15

Sample Output:

7 3 3 2 1 -1 -1

Completion Status: Completed

Concepts Included:

array

Amazon

Flipkart

OYO-Rooms

Samsung

Snapdeal

Zoho

guvi-learning-path

Language Used: PYTHON 3

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
c=[]
for i in range(n):
value=0
for j in range(i,n):
if arr[i]>arr[j]:
value=arr[j]
break
else:
value=-1

c.append(value)
print(*c)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

7 3 3 2 1 -1 -1

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

-1 -1 -1 -1 -1

Compilation Status: Passed

Execution Time:

0.009s

61. You are given with an circular array .Your task is calculate the difference between two consecutive number. And if difference is greater than ‘k’, print 1 else print 0

Sample Input:

5 15
50 65 85 98 35

Sample Output:

0 1 0 1 0

Completion Status: Completed

Concepts Included:

array

Language Used: PYTHON 3

Source Code:

```
n,k=(int(no) for no in input().split())
arr=list(map(int,input().split()))
a=[]
for i in range (n-1):
if abs(arr[i]-arr[i+1])>k:
a.append('1')
else:
a.append('0')

if abs(arr[-1]-arr[0])>k:
a.append('1')
else:
a.append('0')
print(*a)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 1 1 1 1

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 1 1 1 1 1 0 1 0 1

Compilation Status: Passed

Execution Time:

0.01s

62. Ramesh is a student and wants to find out if there is any other student in his class who has got the same marks as his, in maths. Help him to find out.

Sample Input:

2 10
1 2

Sample Output:

-1

Completion Status: Completed

Concepts Included:

searching

array

Language Used: PYTHON 3

Source Code:

```
no,mark=(int(no) for no in input().split())
stu=list(map(int,input().split()))
res=[]
for i in range (no):
if stu[i]==mark:
res.append(i)
break
else:
res.append("-1")
print(*res)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

-1

Compilation Status: Passed

Execution Time:

0.01s

63. You are given an array of ids of prisoners. The jail authority found that there are some prisoners of same id. Your task is to help the authority in finding the common ids.

Sample Input:

7
1 1 11 121 131 141 98

Sample Output:

1

Completion Status: Completed

Concepts Included:

array

Language Used: PYTHON 3

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
c=[]
for i in arr:
if arr.count(i)>=2:
if i not in c:
c.append(i)
if len(c)>=1:
print(*c)
else:
print("-1")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

46

Compilation Status: Passed

Execution Time:

0.01s

64. Given a string S, print it without using semicolon in your program.Sample Testcase :INPUThello worldOUTPUThello world

Completion Status: Completed

Concepts Included:

strings

array

Language Used: PYTHON 3

Source Code:

```
S=str(input())
print(S)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

hello world

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

guvi geeks

Compilation Status: Passed

Execution Time:

0.01s

65. Ria is a 5 year old girl. Her mother wants to teach her how to sort words in the same order that they appear in a dictionary. She decides to write a program to sort a given set of strings based on their alphabetical order. Help Ria's mother to complete the program.

Sample Input:

3
InfinityWar EndGame Avengers

Sample Output:

Avengers EndGame InfinityWar

Completion Status: Completed

Concepts Included:

sorting

array

strings

Language Used: PYTHON 3

Source Code:

```
no=int(input())
a=input().split()
l=[]
a.sort()
for i in a:
l.append(i)
print(*l)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

guvi online training

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

jc sboa

Compilation Status: Passed

Execution Time:

0.01s

66. You are given a number with duplicate digits your task is to remove the immediate duplicate digits and print the result

Sample Input:

1331

Sample Output:

11

Completion Status: Completed

Concepts Included:

strings

array

splay trees

Language Used: PYTHON 3

Source Code:

```
from itertools import groupby
no=int(input())
new_no=[int(no) for no in str(no)]
res = [i for i, j in groupby(new_no) if sum(1 for x in j) < 2]
print(*res,sep="")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

11

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

156987

Compilation Status: Passed

Execution Time:

0.015s

67. Given a number N, print the odd digits in the number(space seperated) or print -1 if there is no odd digit in the given number.Input Size : N <= 100000Sample Testcase :INPUT2143OUTPUT1 3

Completion Status: Completed

Concepts Included:

array

mathematics

Language Used: PYTHON 3

Source Code:

```
no=int(input())
ls=[]
for i in range(len(str(no))):
digit=no%10
if digit%2!=0:
ls.append(digit)
no=no//10
if not ls:
print("-1")
else:
ls.reverse()
print(*ls,sep=" ")
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

-1

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1 3

Compilation Status: Passed

Execution Time:

0.01s

68. Given 2 numbers N and K followed by elements of N .Print 'yes' if K exists else print 'no'.Sample Testcase :INPUT4 21 2 3 3OUTPUTyes

Completion Status: Completed

Concepts Included:

basics

array

Language Used: PYTHON 3

Source Code:

```
N,K=(int(no) for no in input().split())
ele=list(map(int,input().split()))
count=0
i=1
if(i==K):
for i in range(1,N+1):
```

```
count=count+1
print("yes")
break
else:
print("no")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.009s

69. You are a passport issuer, but due to some problems in the system, there are redundant passport numbers. Your task is to delete all the duplicate passport numbers. You are given a list of passport numbers.

Sample Input:

5
A23 B56 B56 C79 D16

Sample Output:

A23 B56 C79 D16

Completion Status: Completed

Concepts Included:

array

set

Language Used: PYTHON 3

Source Code:

```
inp=int(input())
ele=list(map(str,input().split()))
res = []
[res.append(x) for x in ele if x not in res]
print(*res)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

11 12 13 A14 15 19 16 B18

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

A23 B56 C79 D16

Compilation Status: Passed

Execution Time:

0.01s

70. Given a string 'S' swap the even and odd characters starting from index 1(Assume the index starts from 0).Input Size : |s| <= 10000000(complexity O(n))Sample Testcase :INPUTcodekataOUTPUTocedakat

Completion Status: Completed

Concepts Included:

basics

array

strings

Language Used: PYTHON 3

Source Code:

```
S=input()
t=list(S)
t[::2],t[1::2]=t[1::2],t[::2]
res=''.join(t)
print(res)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

ugiv

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

ejardl

Compilation Status: Passed

Execution Time:

0.014s

71. Given a string S, print the reverse of the string after removing the vowels.If the resulting string is empty print '-1'.Input Size : 1 <= N <= 100000Sample Testcase :INPUTcodekataOUTPUTtkdc

Completion Status: Completed

Concepts Included:

strings

array

Language Used: PYTHON 3

Source Code:

```
S=input()
ls=""
for i in S:
if i not in "aeiouAEIOU":
```

```
ls=ls+i
if ls=="":
print("-1")
else:
print(ls[::-1])
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

mhtyhr

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

-1

Compilation Status: Passed

Execution Time:

0.01s

72. Given a sentence S take out the extra spaces.If no extra space is present print the same as output.Input Size : |s| <= 100000(complexity O(n))Sample Testcase :INPUTcodekata challengeOUTPUTcodekata challenge

Completion Status: Completed

Concepts Included:

array

strings

Language Used: PYTHON 3

Source Code:

```
S=input()
res=" ".join(S.strip().split())
print(res)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

coding platform

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

guvi geeks

Compilation Status: Passed

Execution Time:

0.01s

73. Given a number N in decimal convert it into binary value.Input Size : N <= 100000 Sample Testcase :INPUT5OUTPUT101

Completion Status: Completed

Concepts Included:

mathematics

array

Language Used: PYTHON 3

Source Code:

```
n=int(input())
print(bin(n)[2::])
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1000

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

110

Compilation Status: Passed

Execution Time:

0.01s

74. Given 2 strings S1 and s2, check whether they are case senitively equal without using any predefined function(case sensitive).If they are not same print 'no'Sample Testcase :INPUTguvi guviOUTPUTyes

Completion Status: Completed

Concepts Included:

strings

array

Language Used: PYTHON 3

Source Code:

```
s1,s2=input().split()
if s1==s2:
print("yes")
else:
print("no")
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.013s

75. Given a binary number convert it to hexadecimal.Sample Testcase :INPUT1100100OUTPUT64

Completion Status: Completed

Concepts Included:

bitwise

array

strings

Language Used: PYTHON 3

Source Code:

```
a=int(input(),2)
res=hex(a)
print(res[2::])
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

64

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

14

Compilation Status: Passed

Execution Time:

0.01s

76. Given an array of N elements switch(swap) the element with the adjacent element and print the output.Sample Testcase :INPUT53 2 1 2 3OUTPUT2 3 2 1 3

Completion Status: Completed

Concepts Included:

mathematics

array

bitwise

basics

Language Used: PYTHON 3

Source Code:

```
n = int(input())
arr = list(map(int, input().split()))
for i in range(0,n-1,2):
temp = arr[i]
arr[i] = arr[i+1]
arr[i+1] = temp
print(*arr)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3 2 5 4 5 6

Compilation Status: Passed

Execution Time:

0.011s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 3 2 3 1

Compilation Status: Passed

Execution Time:

0.011s

77. Given a string S, print the encoded string by adding 3 to each character(a maps to d,b maps to e,c maps to f and so on).Input Size : 1 <= N <= 100000Sample Testcase :INPUTRADAROUTPUTUDGDU

Completion Status: Completed

Concepts Included:

strings

array

Language Used: PYTHON 3

Source Code:

```
s=input()
ls=[]
for i in range(len(s)):
if (ord(s[i])== 88):
ls.append(chr(65))
elif (ord(s[i])==120):
ls.append(chr(97))
elif (ord(s[i])==89):
ls.append(chr(66))
elif (ord(s[i])==121):
ls.append(chr(98))
elif (ord(s[i])==90):
ls.append(chr(67))
elif (ord(s[i])==122):
ls.append(chr(99))
else:
res=ord(s[i])
sum=res+3
opt=chr(sum)
ls.append(opt)
print(*ls,sep="")
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

ARUR

Compilation Status: Passed

Execution Time:

0.012s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

MLPPLH

Compilation Status: Passed

Execution Time:

0.011s

78. A number is given as input.Find the maximum number that can be formed using the digits.Input Size : N <= 10000000 Sample Testcase :INPUT4123OUTPUT4321

Completion Status: Completed

Concepts Included:

mathematics

array

strings

Language Used: PYTHON 3

Source Code:

```
N=[int(no) for no in input()]
ls=[]
N.sort(reverse=True)
ls.append(N)
```

print(*N,sep="")

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

431

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

00000

Compilation Status: Passed

Execution Time:

0.01s

79. Given 2 arrays print 'yes' if they are mirror images of each other,otherwise 'no'.Input Size : N <= 1000000Sample Testcase :INPUT41 2 3 44 3 2 1OUTPUTyes

Completion Status: Completed

Concepts Included:

array

companies

Language Used: PYTHON 3

Source Code:

```
no=int(input())
ele1=list(map(int,input().split()))
ele2=list(map(int,input().split()))

if ele1 == ele2[::-1]:
print("yes")
else:
print("no")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.015s

80. Given a string S, print 'yes' if the strings 'GUVI' and 'GEEK' is present case-sensitively in the string else print 'no'.Input Size : 1 <= 100Sample Testcase :INPUTVishal_Sundar prepared this questionOUTPUTno

Completion Status: Completed

Concepts Included:

strings

array

Language Used: PYTHON 3

Source Code:

```
s=input().split()
sample=['GUVIGEEK']
l=[]
for i in range(len(s)):
if s[i] in sample:
l.append(s[i])

if len(l)>0:
print("yes")
else:
print("no")
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.01s

81. You are given with string of words,we have to arrange them in reverse saturated order.

Sample Input:

I am kohli fan

Sample Output:

I ma ilhok naf

Completion Status: Completed

Concepts Included:

strings

array

Language Used: PYTHON 3

Source Code:

```
l = str(input()).split()
a = []
for i in l:
a.append(i[::-1])
print(*a)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

I ma ilhok naf

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

ivug seigolonhcet

Compilation Status: Passed

Execution Time:

0.01s

82. Given an array print the number of subarrays that can be formed with it.Input Size : N <= 100000Sample Testcase :INPUT51 2 3 2 1OUTPUT15

Completion Status: Completed

Concepts Included:

array

Language Used: PYTHON 3

Source Code:

```
n=int(input())
a=list(map(int,input().split()))
b=n*(n+1)//2
print(b)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

15

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

21

Compilation Status: Passed

Execution Time:

0.01s

83. Given a number N and an array of N elements, find the Bitwise XOR of the array elements.Input Size : N <= 100000Sample Testcase :INPUT22 4OUTPUT6

Completion Status: Completed

Concepts Included:

array

bitwise

bascis

Language Used: PYTHON 3

Source Code:

```
n = int(input())
arr = list(map(int, input().split()))
result = arr[0]

for i in range(1, n):
result = result ^ arr[i]

print(result)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4

Compilation Status: Passed

Execution Time:

0.015s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

7

Compilation Status: Passed

Execution Time:

0.01s

84. Write a code to get a integer n as input and calculate the smallest perfect power of 2 greater than n.

Sample Input:

48

Sample Output:

64

Completion Status: Completed

Concepts Included:

basics

bit manipulation

Looping

Language Used: PYTHON 3

Source Code:

```
import math
n = int(input())
for i in range(int(math.sqrt(n))+2,1,-1):
if math.pow(2,i) <= n:
print(int(math.pow(2,i+1)))
break
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

64

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

256

Compilation Status: Passed

Execution Time:

0.01s

85.
Given a string as input, you have to reverse the string by keeping the punctuation and spaces intact. You have to modify the source string itself without creating another string.

Sample Input:

A man, in the boat says : I see 1-2-3 in the sky

Sample Output:

y kse, ht ni3 21ee sIsy : a sta o-b-e ht nin amA

Completion Status: Completed

Concepts Included:

basic io math - tf

Accolite

Amazon

D-E-Shaw

FactSet

MakeMyTrip

Microsoft

Nagarro

Samsung

guvi-learning-path

Language Used: PYTHON 3

Source Code:

```
x=input()
y=list(x)
z=[]
l=[]
for i in y:
if i.isalnum():
l.append(i)
else:
z.append(i)
f=l[::-1]

kk=[]
for i in y:
if i.isalnum():
d=f.pop(0)
kk.append(d)
else:
kk.append(i)
else:
print("".join(kk))
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

nlhi+!@@,iF

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

eXrl+!##,os:Oo7vnYrp'#hTQoXvBucRFhdZJ H;fZRnnlhii!F

Compilation Status: Passed

Execution Time:

0.009s

86. Given two strings S1 and S2,display 'yes' if given two strings are complementary otherwise display 'no'. If we join alphabets of both the strings we should get all 26 capital letters exactly once, then only we can call them as complementary.Sample Testcase :INPUTABDCFGIJKLMNOPQUVWXYZEHRSTOUTPUTyes

Completion Status: Completed

Concepts Included:

strings

companies

loop

Language Used: PYTHON 3

Source Code:

```
A =['A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U','V','W','X','Y','Z']
```

```
A1=input()
A2=input()

cout=0
if len(A1)+len(A2)==len(A):
for i in A1:
if i in A:
A.remove(i)
for i in A2:
if i in A:
A.remove(i)
if len(A)==0:
print('yes')
else:
print('no')
else:
print('no')
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.014s

87. Write a code to generate an inverted half pyramid pattern using stars.

Sample Input:

5

Sample Output:

```
* * * * *
* * * *
* * *
* *
*
```

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
def pattern(n):
for i in range(n):
l=[]
for j in range(n-i):
l.append("*")
print('  '.join(l))


n=int(input())
pattern(n)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
* * * * *
* * * *
* * *
* *
*
```

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
* * * * * *
* * * * *
* * * *
* * *
* *
*
```

Compilation Status: Passed

Execution Time:

0.013s

88. Write a code to generate a inverted half pyramid pattern using numbers.

Sample Input:

5

Sample Output:

```
12345
1234
123
12
```

1

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
n = int(input())
for i in range(n):
p=1
for j in range(i,n):
print(p,end="")
p+=1

print()
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
12345
1234
123
12
1
```

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

123456
12345
1234
123
12
1

Compilation Status: Passed

Execution Time:

0.009s

89. Write a code to generate a half pyramid pattern using numbers.

Sample Input:

5

Sample Output:

1
22
333
4444
55555

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
R=int(input())
for i in range(R):
for j in range(i+1):
print(i+1,end="")
print()
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1
22
333
4444
55555

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1
22
333
4444

Compilation Status: Passed

Execution Time:

0.01s

90. Generate a hollow inverted half pyramid pattern using numbers.

Sample Input:

5

Sample Output:

12345
1 4
1 3
12
1

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
n = int(input())
for i in range(n):
p=1
for j in range(i,n):
if(i==0 or j==i or j==n-1):
print(p, end="")
else:
print("", end=" ")
p+=1

print()
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

12345
1 4
1 3
12
1

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1234
1 3
12
1

Compilation Status: Passed

Execution Time:

0.009s

91. Write a code to generate a hollow rectangle using stars.

Sample Input:

3 5

Sample Output:

* * * * *
* *
* * * * *

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
def pattern(r, c):
for i in range(1, r+1):
l = []
if i == 1 or i == r:
```

```
for j in range(c):
l.append('*')
else:
l.append('*')
for j in range(1, c-1):
l.append(' ')
l.append('*')
print(*l)

r, c = map(int, input().split())
pattern(r, c)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
* * * * *
*     *
* * * * *
```

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
* * *
*  *
* * *
```

Compilation Status: Passed

Execution Time:

0.009s

92. Write a code to generate an inverted full pyramid pattern using stars.

Sample Input:

5

Sample Output:

```
* * * * *
* * * *
* * *
* *
*
```

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
def pattern(n):
for i in range(n):
for j in range(i):
print(' ', end = "")
l = []
for j in range(n-i):
l.append('*')
print(' '.join(l))

n = int(input())
pattern(n)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
* * *
* *
*
```

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
* * * *
* * *
* *
*
```

Compilation Status: Passed

Execution Time:

0.009s

93. Write a code to generate a pyramid using stars.

Sample Input:

6

Sample Output:

```
*
**
***
****
*****
******
```

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
def pattern(n):
for i in range(1,n+1):
for j in range(n-i):
print(" ",end="")
for j in range(i):
print("*",end="")
print()


n=int(input())
pattern(n)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
*
**
***
****
*****
******
```

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
*
**
***
****
*****
```

Compilation Status: Passed

Execution Time:

0.009s

94. Write a code to generate a half pyramid number pattern.

Sample Input:

5

Sample Output:

```
12345
4321
123
21
1
```


Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
def pattern(n):
for i in range(n):
if i % 2 == 0:
for j in range(n-i):
print(j+1, end = "")
else:
for j in range(n-i, 0, -1):
print(j, end = "")
print()
```

```
n = int(input())
pattern(n)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
12345
4321
123
21
1
```

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
12345678910
987654321
12345678
7654321
123456
54321
1234
321
12
1
```

Compilation Status: Passed

Execution Time:

0.01s

95. Generate a solid rectangle using stars.

Sample Input:

3 5

Sample Output:

* * * * *
* * * * *
* * * * *

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
R,C=(int(no) for no in input().split())

for i in range(1,R+1):
l=[]
for j in range(C):
l.append("*")
print(*l)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

* * * * *
* * * * *
* * * * *

Compilation Status: Passed

Execution Time:

0.012s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

*

Compilation Status: Passed

Execution Time:

0.014s

96. Generate a full pyramid using numbers.

Sample Input:

5

Sample Output:

1
232
34543
4567654
567898765

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
def pattern(n):
```

```
for i in range(1, n+1):
for j in range(n-i):
print(' ', end = "")
l = []
for j in range(i, (2*i)):
l.append(str(j))
for j in range((2*i)-2, i-1, -1):
l.append(str(j))
print(''.join(l))

n = int(input())
pattern(n)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
1
232
34543
4567654
567898765
```

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
1
232
34543
```

Compilation Status: Passed

Execution Time:

0.009s

97. Generate the following inverted character with star pattern.

bbbb*bbbb

bbb*bbb**

bb***bb**

b*****b**

****

Sample Input:

5

Sample Output:

bbbb*bbbb
bbb***bbb
bb*****bb
b*******b
****

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
n=int(input())
for i in range(n):

for j in range(i,n-1):
print("b",end="")

for j in range (i):
print("*",end="")
```

```
for j in range (i+1):
print("*",end="")

for j in range(i,n-1):
print("b",end="")


print()
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
bbbb*bbbb
bbb***bbb
bb*****bb
b*******b
*********
```

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
bbbbbb*bbbbbb
bbbbb***bbbbb
bbbb*****bbbb
bbb*******bbb
bb*********bb
b**********b
**********
```

Compilation Status: Passed

Execution Time:

0.009s

98. Generate the following pattern.

*****

b****

bb***

bbb**

bbbb*

Sample Input:

5

Sample Output:

*****
b****
bb***
bbb**
bbbb*

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
n=int(input())
p=n
for i in range(n):
for j in range(i):
print("b",end="")

for j in range (i,n):
print("*", end="")
```

```
p=p-1

print()
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
*****
b****
bb***
bbb**
bbbb*
```

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
****
b***
bb**
bbb*
```

Compilation Status: Passed

Execution Time:

0.009s

99. In the IPL season's valedictory function the organizers have

organized for a dance program. The dance has to be performed by men along with the points of the diagonals of the square of side 'n' and the females along with points of the borders. The remaining positions are filled by children. You have to determine their respective positions by writing a program.

Sample Input:

7

Sample Output:

M F F F F F M
F M C C C M F
F C M C M C F
F C C M C C F
F C M C M C F
F M C C C M F
M F F F F F M

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
def pattern(n):
for i in range(n):
l = []
for j in range(n):
if i == j or i+j == n-1:
l.append('M')
elif i == 0 or j == 0 or i == n-1 or j == n-1:
l.append('F')
else:
l.append('C')
print(*l)

n = int(input())
pattern(n)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

M F F M
F M M F
F M M F
M F F M

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

M F F F F F M
F M C C C M F
F C M C M C F
F C C M C C F
F C M C M C F
F M C C C M F
M F F F F F M

Compilation Status: Passed

Execution Time:

0.01s

100. Write a code to generate a pyramid pattern using stars from the given input size N.

Sample Input:

5

Sample Output:

```
*
* *
* * *
* * * *
* * * * *
```

Completion Status: Completed

Concepts Included:

patterns

Language Used: PYTHON 3

Source Code:

```
def pattern(n):
for i in range(1, n+1):
l = []
for j in range(i):
l.append('*')
print(*l)

n = int(input())
pattern(n)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
*
* *
* * *
* * * *
* * * * *
```

Compilation Status: Passed

Execution Time:

0.015s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

```
*
* *
* * *
* * * *
* * * * *
* * * * * *
```

Compilation Status: Passed

Execution Time:

0.009s