

# [SET1\_PYTHON\_MCQPY] - Python Certification

Amit | 31 Jul 2022



Finish State: Auto Submit

Test Taken on: July 31, 2022 12:02:48 PM IST




Amit

098kumaramit@gmail.com

 Date of birth: Nov 4, 1996

Last Name: Kumar

 Contact No: 8882488259

 Gender: Male

 Country: +91

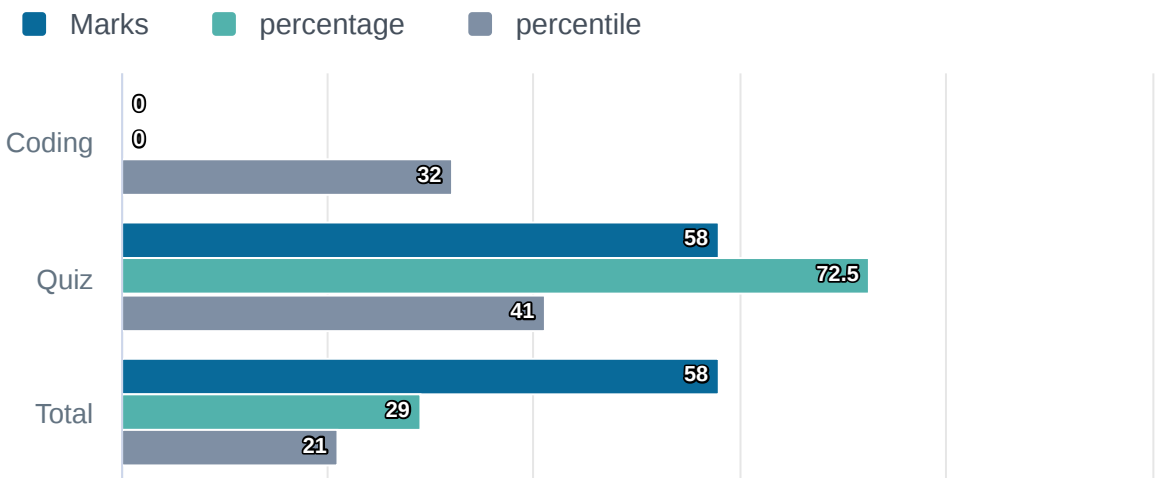
Overall Summary

58 Marks Scored  
out of 200

29 % 20.59 percentile  
out of 34 Test Takers

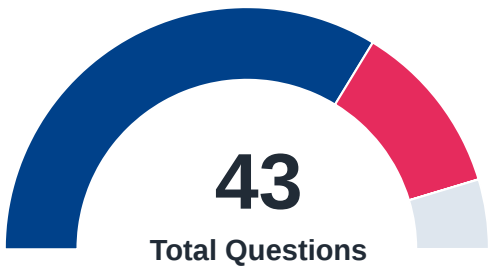
3h Time taken  
of 3hr

Marks Scored



Attempt Summary

Distribution of questions attempted in a total of 43 question(s).



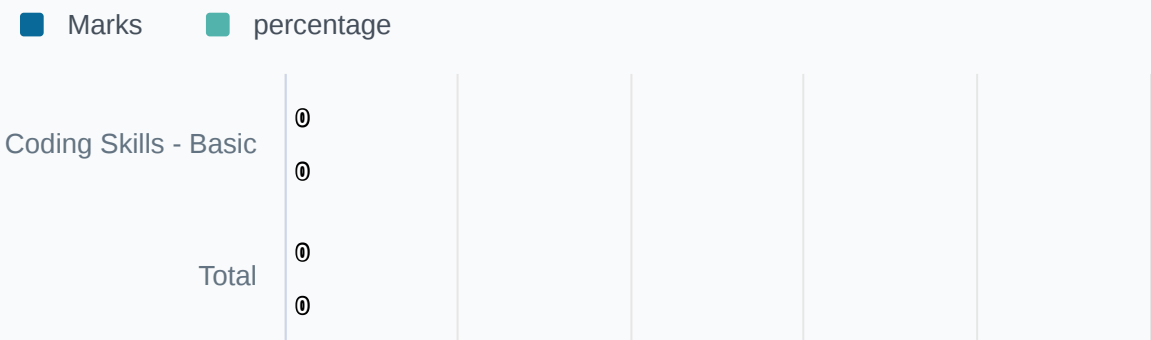
This shows the correctness of questions attempted by the test taker

Correct	29 Ques	58/58 Marks
Incorrect	10 Ques	0/134 Marks
Partially Correct	0 Ques	0/0 Marks
Not Attempted	4 Ques	0/8 Marks

Section-Wise Details

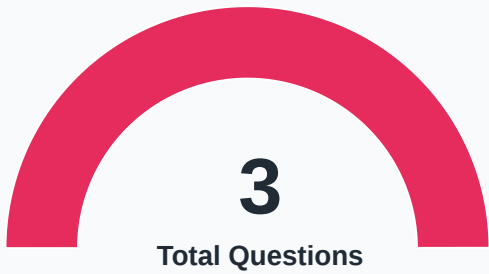
▼	Section 1	question(s)	Time taken	Marks Scored
	Coding	3 Q.	1h 32m 19s (Untimed)	0 / 120

Marks Scored



Attempt Summary

Distribution of questions attempted in a total of 3 question(s).



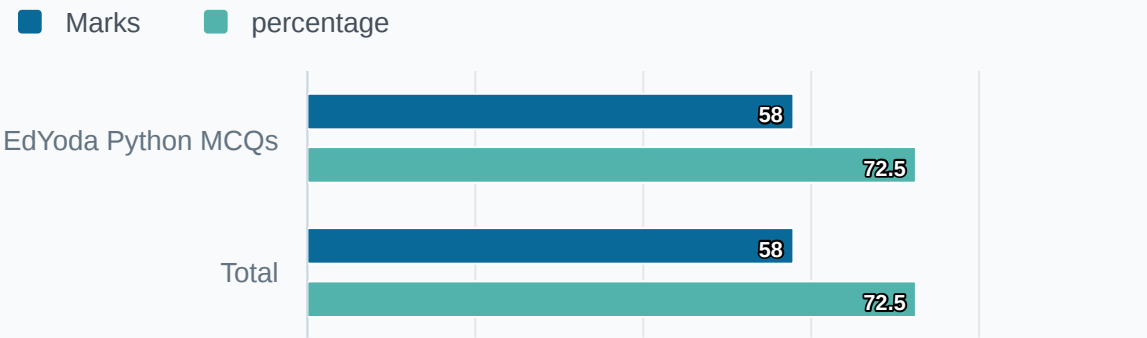
■ Incorrect	3 Ques	0/120 Marks
-------------	--------	-------------

This shows the correctness of questions attempted by the test taker

Section-Wise Details

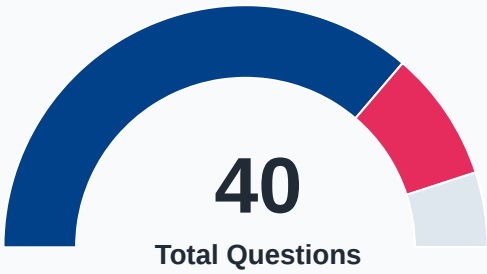
Section 2	question(s)	Time taken	Marks Scored
Quiz	40 Q.	1h 27m 40s (Untimed)	58 / 80

Marks Scored



Attempt Summary

Distribution of questions attempted in a total of 40 question(s).



This shows the correctness of questions attempted by the test taker

Correct	29 Ques	58/58 Marks
Incorrect	7 Ques	0/14 Marks
Not Attempted	4 Ques	0/8 Marks

Q.  
1

▼ Question 1

Compilation: Successful

⌚ Time taken: 18m 52s

Marks Scored: 0/40

Sum of Letters

During a class assessment, a teacher asks students to solve the following problem:  
If A = 0, B = 1, C = B+A, D = C+B, and so on, find the sum of the alphabets of a given word.

Input Specification:

**input1:** String representing any word

Output Specification:

Return an integer value which represents the sum of all the alphabets in input1, as per the above-given scenario.

Example 1:

**input1:** MAN

**Output:** 377

Explanation:

Given the above scenario, the values of M, A, and N are 144, 0 and 233 respectively. Hence, the sum returned is 144+0+233=377.

Example 2:

**input1:** MORE

**Output:** 2121

Explanation:

Given the above scenario, the values of M, O, R and E are 144, 377,1597 and 3 respectively. Hence, the sum returned is 144+377+1597+3=2121.

!



Compilation  
Successful



Time Taken  
18m 52s



Marks Scored  
0 Out of 40



Language  
PYTHON3

```
1 # Read only region start
2 class UserMainCode(object):
3     @classmethod
4     def letter(cls, input1):
```

PYTHON3

```
5     '''
6     input1 : string
7
8     Expected return type : int
9     '''
10    # Read only region end
11    # Write code here
12    A= 0
13    B=1
14    key=[]
15    value=[0,1]
16    ans={}
17    get=[]
18    for i in range(2,26):
19        C=A+B
20        value.append(C)
21        A=B
22        B=C
23    for i in range (65,91):
24        key.append(chr(i))
25    key.sort()
26    ans=dict(zip(key,value))
27    word=input()
28    alpha=[]
29    for i in word:
30        alpha.append(i)
31        alpha.sort()
32    for k,v in ans.items():
33        for i in alpha:
34            if i==k:
35                get.append(v)
36    print(sum(get))
37
38
39    return(get)
40
41
```

0 —

Total no. of Testcase : 10

Total Passed : 0

TEST CASE	MARKS	CPU (MS)	PROCESSING (MS)	MEMORY (KB)	INPUTS	EXPECTED OUTPUT	ACTUAL OUTPUT	ERROR MESSAGE
Basic Testcase 1	0	0	200	103812	B	1		Traceback (most recent call last): File "UserTestCode.py", line 291, in mettl_func_output=UserMainCode.letter(ip1) File "UserMainCode.py", line 28, in letter word=input() EOFError: EOF when reading a line
Basic Testcase 2	0	0	149	103812	DOG	387		Traceback (most recent call last): File "UserTestCode.py", line 291, in mettl_func_output=UserMainCode.letter(ip1) File "UserMainCode.py", line 28, in letter word=input() EOFError: EOF when reading a line
Necessary Testcase 1	0	0	135	103812	PAKISTAN	7684		Traceback (most recent call last): File "UserTestCode.py", line 291, in mettl_func_output=UserMainCode.letter(ip1) File



								"UserMainCode.py", line 28, in letter word=input() EOFError: EOF when reading a line
Necessary Testcase 2	0	0	227	103812	KNIFE	317		Traceback (most recent call last): File "UserTestCode.py", line 291, in mettl_func_output=UserMainCode.letter(ip1) File "UserMainCode.py", line 28, in letter word=input() EOFError: EOF when reading a line
Basic Testcase 3	0	0	202	103812	PPP	1830		Traceback (most recent call last): File "UserTestCode.py", line 291, in mettl_func_output=UserMainCode.letter(ip1) File "UserMainCode.py", line 28, in letter word=input() EOFError: EOF when reading a line
Basic Testcase 4	0	0	137	103812	MATHEMATICS	11272		Traceback (most recent call last): File "UserTestCode.py", line 291, in mettl_func_output=UserMainCode.letter(ip1) File "UserMainCode.py", line

							28, in letter word=input() EOFError: EOF when reading a line
Necessary Testcase 1	0	0	164	103812	AEROPLANE	2912	Traceback (most recent call last): File "UserTestCod e.py", line 291, in mettl_func_o utput=UserM ainCode.letter (ip1) File "UserMainCo de.py", line 28, in letter word=input() EOFError: EOF when reading a line
Necessary Testcase 2	0	0	205	103812	HITHISISME TTL	18036	Traceback (most recent call last): File "UserTestCod e.py", line 291, in mettl_func_o utput=UserM ainCode.letter (ip1) File "UserMainCo de.py", line 28, in letter word=input() EOFError: EOF when reading a line
Time Complexity Testcase 1	0	0	152	103812	ABXEFHGUJ NKILHNUMB VFGYTRDFV C	117099	Traceback (most recent call last): File "UserTestCod e.py", line 291, in mettl_func_o utput=UserM ainCode.letter (ip1) File "UserMainCo de.py", line 28, in letter word=input()

							EOFError: EOF when reading a line
Time Complexity Testcase 2	0	0	158	103812	ABXEFHGUJ NKILHNUMB VFGYTRDFV CQWERTYUI OPASDFGHJ KLZXVBVNM H	324474	Traceback (most recent call last): File "UserTestCod e.py", line 291, in mettl_func_o utput=UserM ainCode.letter (ip1) File "UserMainCo de.py", line 28, in letter word=input() EOFError: EOF when reading a line

## Largest Subarray

Given an array containing only 0s and 1s, find the length of the largest subarray containing an equal number of 0s and 1s.

### Input Specification:

**input1:** N, the length of an array

**input2:** Array containing 0s and 1s

### Output Specification:

Return the length of the largest sub-array containing equal no. of 0s and 1s.

### Example 1:

**input1: 4**

input2: {1,1,0,1}

**Output: 2**

**Explanation:**

Largest possible array here would be of length 2 as there should be equal number of 0 and 1 in it. The starting index and ending index of the Largest subarray is 1 and 2. Hence the output is 2.

### Example 2:

**input1: 5**

input1: {1,1,1,1,1}

**Output: 0**

**Explanation:**

In the above example, there are no 0s in the array. Hence the output is 0.

!

 Compilation  
Successful

 Time Taken  
1h 8m 3s

 Marks Scored  
0 Out of 40

 Language  
PYTHON3

```
1 # Read only region start
2 class UserMainCode(object):
3     @classmethod
4     def largestSubarray(cls, input1, input2):
5         '''
6         input1 : int
7         input2 : int[]
8
9         Expected return type : int
```

PYTHON3

```
10      '''
11      # Read only region end
12      # Write code here
13      n= input1
14      input2[]=input2
15      sum = 0
16
17      for i in input2(0, n-1):
18          if input2[i]==0:
19              sum = sum +1
20          if input2[i]==1:
21              sum= sum+1
22          else:
23              pass
24      return sum
25 abc=UserMainCode()
26 abc.largestSubarray(3, [0,1,0,1,0])
27
```



Sample Test Case Timestamp
Graded Test Case Timestamp

Graded Test Case Code Compilation : 0 Successful 0 Attempt

Code complexity ⓘ : 0

Sample Test Case Code Compilation : 9 Successful 9 Attempt

Total no. of Testcase : 10    Total Passed : 0

TEST CASE	MARKS	CPU (MS)	PROCESSING (MS)	MEMORY (KB)	INPUTS	EXPECTED OUTPUT	ACTUAL OUTPUT	ERROR MESSAGE
Basic Testcase 1	0	0	148	103812	10, {1,0,0,1,1,1,1, 1,0,1}	4		Traceback (most recent call last): File "UserTestCode.py", line 4, in from UserMainCode import * File "UserMainCo

								de.py", line 15 input2[]=input 2 ^ SyntaxError: invalid syntax
Basic Testcase 2	0	0	289	102404	20, {1,1,1,0,0,0,0, 1,0,1,1,0,1,1, 1,1,0,1,0,0}	18		Traceback (most recent call last): File "UserTestCod e.py", line 4, in from UserMainCod e import * File "UserMainCo de.py", line 15 input2[]=input 2 ^ SyntaxError: invalid syntax
Basic Testcase 3	0	0	216	103812	50, {1,1,1,1,0,1,0, 1,0,0,1,0,1,1, 1,1,1,1,0,0,1, 1,0,1,1,1,1,1, 0,0,1,1,1,1,1, 1,0,1,0,1,1,0, 0,0,1,0,1,0,1, 0}	16		Traceback (most recent call last): File "UserTestCod e.py", line 4, in from UserMainCod e import * File "UserMainCo de.py", line 15 input2[]=input 2 ^ SyntaxError: invalid syntax
Basic Testcase 4	0	0	131	103812	70, {1,1,1,1,1,0,0, 1,1,1,1,1,0,0, 1,0,1,1,0,0,0, 0,1,1,0,1,1,1, 1,0,0,1,0,0,0, 1,0,1,0,1,1,0, 1,1,1,1,1,0,1, 1,1,0,1,1,0,1, 1,0,0,1,1,1,1, 1,0,1,1,1,1,0}	34		Traceback (most recent call last): File "UserTestCod e.py", line 4, in from UserMainCod e import * File "UserMainCo de.py", line 15 input2[]=input 2 ^ SyntaxError: invalid syntax
Necessary Testcase 1	0	0	129	103812	100,	20		Traceback



					1,0,1,1,1,1,1, 1,1,0,1,1,1,1, 1,1,0,0,1,1,1, 1,1,0,1,1,1,1, 1,0,0,0,0,1,0, 1,0,1,1,0,1,1, 1,0,1,0,0,0,1, 0,0,1,0,1,1,1, 1,0,0,1,1,0,0, 1,1,1,1,0,1,1, 0,1,1,0,1,1,1, 1,1,0,1,1,1,1, 0,1,1,0,1,0,1, 1,0,0,1,1,1,0, 1,1,1,0,1,1,0, 1,1,1,1,0,1,0, 1,1,0,1,0,1,0, 1,0,1,1,1,1,0, 1,0,1,0,1,1,1, 1,1,1,1,0,1,1, 1,1,1,0,1,1,1, 0,0,1,1,0,0,0, 1,0,1,1,1,1,0, 1,1,0,1,0,1,0, 0,1,0,1,1,1,0, 1,1,0,1,0,1,1, 1,1,1,0,0,1,0, 0,1,1,1,1,0,0, 1,1,0,0,1,1,1, 0,1,1,1,0,0,1, 0,1,0,1,1,0,1, 0,1,1,0,0,1,1, 0,0,1,1,1,1,1, 1,1,1,0,1,1,1, 1,1,1,0,0,1}		de.py", line 15 input2[]=input 2 ^ SyntaxError: invalid syntax
Corner Testcase 2	0	0	208	102404	500, {1,1,0,1,0,0,1, 1,1,1,0,0,0,1, 1,1,1,1,0,1,0, 0,0,0,1,1,0,0, 1,1,1,1,1,1,0, 1,1,1,0,1,0,1, 0,1,1,0,1,1,0, 1,0,1,0,1,1,0, 1,1,1,0,0,1,1, 1,1,0,1,1,1,1, 1,0,1,1,0,1,1, 0,1,1,1,1,0,1, 0,1,1,1,0,1,1, 0,1,1,0,0,1,1, 1,1,1,0,0,1,0, 0,1,0,1,1,0,1, 1,0,0,1,0,1,1, 0,0,1,1,1,0,1,	76	Traceback (most recent call last): File "UserTestCod e.py", line 4, in from UserMainCod e import * File "UserMainCo de.py", line 15 input2[]=input 2 ^ SyntaxError: invalid syntax



	0,1,1,1,1,1,1,
	0,1,1,1,1,0,1,
	1,0,1,1,0,1,0,
	1,0,1,0,1,1,0,
	1,1,0,0,1,1,0,
	0,1,1,1,0,1,1,
	0,1,1,1,1,0,0,
	1,1,1,1,0,0,1,
	0,1,0,0,1,0,0,
	0,0,0,0,1,1,1,
	1,1,1,1,0,1,1,
	1,1,1,1,1,1,0,
	1,1,0,1,0,1,0,
	1,1,1,0,1,1,1,
	0,1,1,1,0,1,1,
	1,0,1,1,1,1,0,
	0,0,1,0,1,0,0,
	0,1,0,1,0,1,0,
	0,1,0,1,1,0,1,
	1,1,0,1,0,1,1,
	0,1,1,0,1,0,1,
	1,0,0,1,0,1,1,
	1,0,1,1,1,0,1,
	1,0,1,1,1,1,1,
	1,1,1,0,1,1,0,
	1,1,1,1,1,1,0,
	0,1,1,0,0,1,1,
	1,1,1,1,1,1,0,
	1,1,1,0,1,1,0,
	0,1,0,1,0,0,1,
	0,1,0,1,0,1,0,
	1,1,1,1,1,0,1,
	1,0,1,1,1,1,1,
	1,0,1,1,1,0,1,
	1,0,1,1,0,1,0,
	1,0,0,1,1,1,0,
	1,1,0,1,1,0,0,
	1,1,0,0,0,0,0,
	1,1,1,0,1,1,0,
	0,1,0,0,1,1,1,
	0,1,1,1,1,1,1,
	0,1,0,1,1,1,1,
	1,0,0,1,0,0,0,
	1,0,1,1,0,0,1,
	0,1,1,1,1,1,1,
	0,1,0,0,0,0,0,
	0,1,0,1,1,1,0,
	0,1,1,0,0,1,1,
	1,0,1,0,1,1,1,
	1,1,1,0,0,1,1,
	1,1,0,0,0,0,0,
	1,1,0,1,1,0,0,
	1,0,0,0,1,0,0,
	1,1,1}

Time Complexity	0	0	139	103812	600,	42	Traceback
Testcase 1					{1,1,1,1,1,0,1, 0,1,1,1,1,1,0, 1,1,1,0,0,1,1, 0,0,1,1,1,1,1, 0,1,0,1,0,0,0, 0,1,1,0,0,1,0, 1,1,1,1,1,1,1, 1,1,1,1,1,0,1, 0,1,1,1,0,0,1, 1,0,1,1,1,0,0, 1,1,1,1,1,1,0, 1,1,1,1,0,0,0, 1,0,0,1,1,1,1, 0,1,0,1,0,0,0, 1,1,1,1,1,1,1, 1,1,0,0,1,0,1, 0,0,1,1,1,0,0, 1,1,0,1,0,0,1, 1,1,1,1,1,1,1, 1,0,0,1,1,1,0, 1,1,1,1,1,1,1, 1,1,1,1,0,1,1, 1,1,0,1,1,1,1, 0,1,1,1,1,0,0, 1,0,0,1,0,0,1, 1,1,0,0,1,1,1, 0,1,0,1,1,1,1, 1,0,1,1,1,0,0, 0,1,0,1,1,1,1, 0,0,1,1,1,0,1, 1,1,0,0,1,1,1, 1,0,0,1,0,1,0, 1,0,0,0,1,1,1, 0,1,1,0,0,1,0, 1,1,0,1,1,1,0, 0,0,0,1,1,0,0, 1,1,1,1,1,0,0, 0,1,1,1,1,1,1, 0,1,0,1,1,0,0, 1,1,0,1,0,1,1, 1,1,0,0,1,0,1, 1,1,0,1,0,1,0, 0,1,1,1,1,1,0, 1,0,0,1,1,0,1, 0,1,0,1,0,0,1, 1,1,1,0,1,1,0, 1,0,0,1,1,1,1, 1,1,1,0,0,1,1, 1,1,0,1,0,0,1, 0,0,0,1,1,1,0, 1,0,1,1,1,1,0, 1,1,1,1,1,1,1, 0,0,1,0,1,1,1, 1,1,1,1,0,1,0,	(most recent call last): File "UserTestCod e.py", line 4, in from UserMainCod e import * File "UserMainCo de.py", line 15 input2[]=input 2 ^  SyntaxError: invalid syntax	

1,1,0,1,0,0,1,  
1,1,1,0,0,1,1,  
1,1,1,1,1,1,1,  
1,1,0,0,0,1,0,  
1,1,1,1,0,1,1,  
1,1,1,0,0,1,0,  
1,1,0,1,1,1,1,  
1,1,1,1,1,1,1,  
0,1,1,1,1,1,0,  
0,0,0,1,0,1,0,  
0,1,1,1,1,1,1,  
1,1,1,1,1,1,0,  
1,0,1,0,0,1,1,  
1,1,1,1,1,1,0,  
0,0,1,1,1,1,0,  
1,1,1,1,0,1,1,  
0,1,1,0,1,1,1,  
1,1,1,1,1,1,0,  
1,0,1,1,1,1,1,  
0,0,1,1,1,0,0,  
1,1,1,1,1,1,1,  
0,1,1,0,1,0,0,  
0,0,1,1,1,1,0,  
0,0,1,1,1,1,0,  
0,1,1,0,1,0,0,  
0,0,1,1,0,1,1,  
0,1,0,1,1,1,1,  
0,1,1,0,1,0,0,  
0,1,1,0,1,1,0,  
1,0,0,0,1,1,1,  
1,1,0,0,1,1,0,  
0,1,1,1,0}

Time Complexity Testcase 2	0	0	189	103812	700, {1,1,1,1,0,1,1, 0,1,1,1,1,1,1, 1,1,1,1,1,1,1, 1,0,1,1,0,0,1, 1,1,1,1,0,1,0, 1,0,1,1,1,1,1, 1,1,1,1,1,1,1, 0,1,0,1,0,1,1, 1,0,1,1,1,0,0, 1,1,1,1,1,1,1, 0,1,0,1,1,1,1, 0,1,1,0,1,0,0, 1,1,1,1,1,0,1, 1,0,1,0,0,0,1, 1,0,1,1,0,1,1, 1,1,1,1,1,1,0, 0,1,1,1,1,1,1, 1,1,1,1,1,1,1, 1,0,1,1,1,0,0, 1,0,1,1,0,0,1, 0,0,1,0,1,0,0,	110	Traceback (most recent call last): File "UserTestCod e.py", line 4, in from UserMainCod e import * File "UserMainCo de.py", line 15 input2[]=input 2 ^ SyntaxError: invalid syntax
-------------------------------	---	---	-----	--------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

0,1,1,0,0,0,1,  
0,1,0,1,1,1,1,  
1,0,1,1,0,0,1,  
0,1,0,1,1,1,0,  
1,0,1,0,1,0,1,  
0,0,0,0,0,1,0,  
0,0,0,1,1,1,0,  
0,0,1,0,1,0,1,  
1,1,1,1,1,0,0,  
0,0,1,1,1,0,0,  
0,1,1,0,1,0,1,  
0,1,1,0,1,0,0,  
1,0,0,1,1,1,1,  
1,1,1,1,1,1,1,  
0,1,1,0,1,1,1,  
0,1,1,1,0,0,1,  
0,1,1,0,0,0,1,  
1,1,1,0,1,1,0,  
0,1,1,0,1,1,1,  
1,1,0,1,0,1,0,  
1,1,1,1,1,0,1,  
1,0,1,0,1,1,1,  
1,0,1,1,1,1,0,  
0,0,0,0,0,1,1,  
1,1,1,0,1,1,1,  
1,1,1,1,1,0,1,  
1,0,1,1,1,0,1,  
1,1,0,1,0,1,0,  
0,1,1,1,1,1,1,  
1,0,1,0,0,1,1,  
1,0,0,1,1,0,1,  
0,0,1,0,1,0,1,  
1,1,0,1,1,0,1,  
1,1,1,1,1,0,1,  
0,0,0,1,0,0,0,  
0,1,1,0,1,1,1,  
0,1,0,1,1,0,1,  
1,1,0,1,1,0,1,  
1,1,1,1,1,1,0,  
1,1,1,0,1,1,0,  
1,1,0,1,1,0,1,  
1,1,0,1,1,1,1,  
0,0,0,0,1,1,1,  
0,1,0,1,1,1,1,  
1,1,0,1,1,1,0,  
1,1,1,1,0,1,1,  
0,1,0,1,1,1,1,  
0,1,1,0,1,0,0,  
0,0,1,0,1,1,1,  
0,0,0,1,1,1,0,  
1,0,1,0,1,1,1,  
1,1,1,0,0,1,1,  
1,1,1,1,1,0,1,  
0,1,0,1,1,0,1,  
0,0,0,1,1,1,1,

1,1,1,1,0,0,0,
1,1,1,1,1,1,1,
1,0,0,0,1,1,0,
1,0,1,0,1,1,0,
1,1,1,0,1,1,0,
1,1,0,0,1,0,1,
0,0,1,1,1,1,1,
1,1,0,1,1,1,0,
1,1,0,1,1,1,0,
0,1,1,0,1,0,1,
1,0,1,1,1,1,0,
0,1,1,0,1,1,1,
1,0,1,1,0,1,1,
1,1,0,0,1,0,1,
1,1,1,1,1,0,1,
0,0,0,0,0,0,0,
1,1,1,0,1,1,1,
1,1,0,1,0,1,1,
1,0,1,1,1,0,1,
1,0,1,1,1,1,0,
1,0,1,1,0,0,1,
0,1,1,1,1,1,1,
1,1,0,1,0,1,0,
0,1,1,1,1,1,1}

Students Report

Given a list of N students, every student is marked for M subjects. Each student is denoted by an index value. Their teacher Ms. Margaret must ignore the marks of any 1 subject for every student. For this she decides to ignore the subject which has the lowest class average.

Your task is to help her find that subject, calculate the total marks of each student in all the other subjects and then finally return the array of the total marks scored by each student.

Input Specification:

- input1:** An integer value N denoting number of students
- input2:** An integer value M denoting number of subjects
- input3:** A 2-D integer array of size N\*M containing the marks of all students in each subject

Output Specification:

Return an integer array of size N containing the total marks of each student after deducting the score for that one subject.

Example 1:

- input1:** 3
- input2:** 5
- input3:** { {75, 76, 65, 87, 87},  
              {78, 76, 68, 56, 89},  
              {67, 87, 78, 77, 65} }

**Output:** {325, 299, 296}

Explanation:

Out of these subjects, the students' average was lowest in Subject 3 i.e.,  $65+68+78 = 211/3 = 70.3$

So, the teacher will ignore marks of this subject and will consider the total for all the other four subjects for all the three students i.e., 325, 299, 296 respectively.

Hence, {325,299,296} is returned as the final output.

Example 2:

- input1:** 3
- input2:** 3
- input3:** { {50, 30, 70},  
              {30, 70, 99},  
              {99, 20, 30} }

**Output:** {120, 129, 129}

Explanation:

Out of these subjects, the students' average was lowest in subject 2 i.e.,  $30+70+20 = 120/3 = 40$

So, the teacher will ignore marks of this subject and will consider the total for the other two subjects for each of the three students i.e., 120, 129, 129 respectively.

Hence, {120, 129, 129} is returned as the final output.

1

# Read only region start

2

class UserMainCode(object):

3

@classmethod

4

def SortStudentMarks(cls, input1, input2, input3):

5

'''

6

input1 : int

7

input2 : int

8

input3 : int[-]

9

10

Expected return type : int[]

11

'''

12

# Read only region end

13

# Write code here

14

15

pass

16

17

PYTHON3



■ Sample Test Case Timestamp ■ Graded Test Case Timestamp

Graded Test Case Code Compilation : 0 Successful 0 Attempt

Sample Test Case Code Compilation : 0 Successful 0 Attempt

Code complexity ⓘ : 0

Total no. of Testcase : 10    Total Passed : 0

TEST CASE	MARKS	CPU (MS)	PROCESSING (MS)	MEMORY (KB)	INPUTS	EXPECTED OUTPUT	ACTUAL OUTPUT	ERROR MESSAGE
Necessary Testcase 1	0	0	206	103812	6, 5, {75,74,25,67,27}, {78,26,78,46,23},	{201,205,257,268,296,380}		NA





					{75,76,15,87,87}, {78,56,68,56,89}, {67,87,78,77,65}, {75,76,65,87,82}, {78,16,68,56,89}, {67,87,78,77,65}, {75,76,65,87,87}, {78,76,5,56,89}, {2,87,1,77,65}}			
Basic Testcase 2	0	0	140	102404	3, 5, {{100,100,100,100,100}, {90,90,90,90,90}, {0,0,0,0,0}}	{0,360,400}		NA
Corner Testcase 1	0	0	228	103812	4, 5, {{75,76,-5,-17,87}, {78,-76,68,56,89}, {67,97,71,-17,25}, {67,27,78,-17,65}}	{159,233,237,260}		NA
Corner Testcase 2	0	0	145	103812	6, 10, {{75,76,65,87,87,75,76,65,87,87}, {78,76,68,56,89,78,76,68,56,89}, {67,87,78,77,65,67,27,78,-17,65}, {75,76,65,87,82,100,-6,65,87,87}, {78,72,68,56,8,78,62,24,56,89}, {67,87,7,77,-5,67,27,78,-17,65}}	{470,535,611,631,678,693}		NA

Basic Testcase 3	0	0	187	103812	4, 9, {{1,2,3,4,5,6,7 ,8,9}, {2,3,4,5,6,7,8, 9,10}, {3,4,5,6,7,8,9, 0,1}, {7,8,9,10,10,1 0,2,2,2}}	{40,44,52,53}	NA
Basic Testcase 4	0	0	197	103812	3, 8, {{1,0,0,0,0,0,0 ,0}, {0,0,0,0,1,0,0, 0}, {0,0,0,0,0,0,0, 1}}	{1,1,1}	NA
Time Complexity Testcase 2	0	0	193	103812	35, 5, {{75,74,65,87 ,87}, {78,26,68,56, 89}, {67,87,58,77, 65}, {75,76,25,87, 87}, {78,76,28,56, 89}, {67,82,78,77, 65}, {75,76,65,87, 87}, {78,76,68,56, 89}, {67,87,78,27, 65}, {75,76,35,87, 87}, {78,76,68,56, 89}, {67,3,78,77,6 5}, {75,76,65,87, 87}, {78,76,68,56, 89}, {67,87,78,77, 65}, {75,76,65,87, 87}, {78,76,68,56, 89}, {67,87,78,77, 65}, {75,76,65,87,	{323,249,296,325,299,2 91,325,299,246,325,29 9,212,325,299,296,325, 299,296,325,296,296,3 25,279,296,320,239,29 6,325,299,231,325,299, 323,249,296}	NA

					87}, {78,76,68,56,86}, {67,87,78,77,65}, {75,76,15,87,87}, {78,56,68,56,89}, {67,87,78,77,65}, {75,76,65,87,82}, {78,16,68,56,89}, {67,87,78,77,65}, {75,76,65,87,87}, {78,76,5,56,89}, {2,87,1,77,65}, {75,76,65,87,87}, {78,76,5,56,89}, {75,74,65,87,87}, {78,26,68,56,89}, {67,87,58,77,65}}		
Basic Testcase 1	0	0	211	103812	12, 9, {{1,2,3,4,5,6,7,8,9}, {2,3,4,5,6,7,8,9,10}, {3,4,5,6,7,8,9,0,1}, {7,8,9,10,10,10,2,2,2}, {1,2,3,4,5,6,7,8,9}, {2,3,4,5,6,7,8,9,10}, {3,4,5,6,7,8,9,0,1}, {7,8,9,10,10,10,2,2,2}, {1,2,3,4,5,6,7,8,9}, {2,3,4,5,6,7,8,9,10},	{44,52,40,53,44,52,40,53,44,52,40,53}	NA

					{3,4,5,6,7,8,9, 0,1}, {7,8,9,10,10,1 0,2,2,2}}		
--	--	--	--	--	---------------------------------------------------------	--	--

Q.  
1

▼ Question 1

🕒 Time taken: 1m 59s

Marks Scored: 0/2

What are the Immutables here:

- a) Tuples
- b) Dictionaries
- c) List
- d) Elements of Set

Response:

OPTIONS	RESPONSE	ANSWER
a		
a, d		✓
a, d	✓	
a, c		

What is the output of the code shown below?

```
def f(x):
    def f1(a, b):
        print("hello")
        if b==0:
            print("NO")
            return
        return f(a, b)
    return f1

    @f
    def f(a, b):
        return a%b
f(4,0)
```

Response:

OPTIONS	RESPONSE	ANSWER
helloNO		
helloZero Division Error		
NO		
Hello		

Consider the following list as input:  
numbers = [1, 2, 3]

Which of the following would produce the result: [2]

Response:

OPTIONS	RESPONSE	ANSWER
list(filter(lambda x: (x + 1) * 3 / 3 % 3 == 0, numbers))		
list(filter(lambda x: 2, numbers))		
list(filter(lambda x: x == 0, numbers))		
list(filter(lambda x: x > 1, numbers))		

What will be the output of the following:

```
1 given_string = 'apple mango kiwi'
2
3 def test_fun(fruit1,fruit2,fruit3):
4     print('I love to eat ',fruit2)
5
6 test_fun(*tuple(given_string.split(' ')))
7
```

Response:

OPTIONS	RESPONSE	ANSWER
I love to eat p		
Error		
I love to eat mango	✔	✔
I love to eat kiwi		

What will be the output of the following Python code?

```
class A:
    def test1(self):
        print(" test of A called ")

class B(A):
    def test(self):
        print(" test of B called ")

class C(A):
    def test(self):
        print(" test of C called ")

class D(B,C):
    def test2(self):
        print(" test of D called ")

obj=D()
obj.test()
```

Response:

OPTIONS	RESPONSE	ANSWER
test of B called test of C called		
test of C called test of B called		
test of B called	✔	✔
Error, both the classes from which D derives has same method test()		



What will be the output of the following code?

```
def even_infinite():  
    num=0  
    while num<4:  
        yield num  
        num+=2  
  
even_iter_obj = even_infinite()  
  
for i in range(2):  
    next(even_iter_obj)  
  
print(next(even_iter_obj))
```

Response:

OPTIONS	RESPONSE	ANSWER
1		
2		
4		
Stoptleration Error	✔	✔

What will be the output of the following Python code?

```
try:

    if '1' != 1:

        raise "someError"

    else:

        print("someError has not occurred")

except "someError":

    print ("someError has occurred")
```

Response:

OPTIONS	RESPONSE	ANSWER
someError has occurred	<input checked="" type="radio"/>	
someError has not occurred	<input type="radio"/>	
invalid code	<input type="radio"/>	<input checked="" type="radio"/>
none of the mentioned	<input type="radio"/>	

Which of the following statements is used to create an empty set?

Response:

OPTIONS	RESPONSE	ANSWER
{ }	<input type="radio"/>	
set()	<input checked="" type="radio"/>	<input checked="" type="radio"/>
[ ]	<input type="radio"/>	
( )	<input type="radio"/>	

What will be the output of the following Python code?

```
1 sentence = 'we are humans'
2 matched = re.match(r'(.*) (.*) (.*)', sentence)
3 print(matched.groups())
```

Response:

OPTIONS	RESPONSE	ANSWER
('we', 'are', 'humans')	<input checked="" type="radio"/>	<input checked="" type="radio"/>
(we, are, humans)	<input type="radio"/>	<input type="radio"/>
('we', 'humans')	<input type="radio"/>	<input type="radio"/>
'we are humans'	<input type="radio"/>	<input type="radio"/>

What will be the output of the following code?

```
test_list = [1,2,3,4,5]
test_list_duplicate = test_list
print(id(test_list) == id(test_list_duplicate))
```

Response:

OPTIONS	RESPONSE	ANSWER
True	<input checked="" type="radio"/>	<input checked="" type="radio"/>
False	<input type="radio"/>	<input type="radio"/>
Error	<input type="radio"/>	<input type="radio"/>
None of the above	<input type="radio"/>	<input type="radio"/>

Notice the else block in Try Except like this:

```
try:
    x = iter([1,2,3,4,(1/0)])
    for i in range(5):
        next(x)

except StopIteration:
    print("the stop iteration error")

except ZeroDivisionError:
    print("the zero dividin error")

else:
    print("No error Occured")

print("out of the try except thing")
```

True or False:

else block runs only if the try does not result in an error.

Response:

OPTIONS	RESPONSE	ANSWER
True	✓	✓
False		

In the following Object Oriented Programming Code, What will be the output?

```
class Animal:
    def __init__(self,name):
        print("Animal",end='')
        self.name = name
class Dog(Animal):
    def __init__(self,name,age):
        print("Dog",end='')
        super().__init__(name)
        self.age = age

yuki = Dog("yuki singh",4)
```

Response:

OPTIONS	RESPONSE	ANSWER
Animal		
AnimalDog		
DogAnimal	✔	✔
Dog		

What will be the output of this statement: print(5 in 500)?

Response:

OPTIONS	RESPONSE	ANSWER
True		
False		
Error	✔	✔
Answer Choice 4		

What will be the output of the following Python code?

```
sentence = 'horses are fast'  
regex = re.compile('(P<animal>w+) (P<verb>w+) (P<adjective>w+)')  
matched = re.search(regex, sentence)  
print(matched.group(2))
```

Response:

OPTIONS	RESPONSE	ANSWER
{‘animal’: ‘horses’, ‘verb’: ‘are’, ‘adjective’: ‘fast’}		
(‘horses’, ‘are’, ‘fast’)		
‘horses are fast’		
‘are’		✓

Which of the following are true of Python dictionaries:

Response:

OPTIONS	RESPONSE	ANSWER
All the keys in a dictionary must be of the same type		
Dictionaries are mutable	✓	✓
A dictionary can contain any object type except another dictionary		
Dictionaries are accessed by key.	✓	✓
Dictionaries can be nested to any depth.	✓	✓
Items are accessed by their position in a dictionary.		

What will be the output of the following Python code?

```
def func(a, b=5, c=10):  
    print('a is', a, 'and b is', b, 'and c is', c)  
  
func(3, 7)  
func(25, c = 24)  
func(c = 50, a = 100)
```

Response:

OPTIONS	RESPONSE	ANSWER
a is 7 and b is 3 and c is 10 a is 25 and b is 5 and c is 24 a is 5 and b is 100 and c is 50		
a is 3 and b is 7 and c is 10 a is 5 and b is 25 and c is 24 a is 50 and b is 100 and c is 5		
a is 3 and b is 7 and c is 10 a is 25 and b is 5 and c is 24 a is 100 and b is 5 and c is 50	✔	✔
None of the mentioned		

What will be the output of the following Python code?

```
1 def d(f):
2     def n(*args):
3         return '$' + str(f(*args))
4     return n
5 @d
6 def p(a, t):
7     return a + a*t
8
9 print(p(100,0))
```

Response:

OPTIONS	RESPONSE	ANSWER
100		
\$100	✓	✓
\$0		
0		

What will be the output of below code?

```
S = 'Python,Java,C,C++'
print(s[10: 1 : -2])
```

Response:

OPTIONS	RESPONSE	ANSWER
Empty String		
avaJ,nohty		
avaJ,noht		
Aa,ot	✓	✓



Choose the function whose output can be:  
<\_sre.SRE\_Match object; span=(4, 8), match='aaaa'>

Response:

OPTIONS	RESPONSE	ANSWER
re.search('aaaa', "alohaaaa", 0)	<input checked="" type="radio"/>	<input checked="" type="radio"/>
re.match('aaaa', "alohaaaa", 0)	<input type="radio"/>	<input type="radio"/>
re.match('aaa', "alohaaa", 0)	<input type="radio"/>	<input type="radio"/>
re.search('aaa', "alohaaa", 0)	<input type="radio"/>	<input type="radio"/>

What will be the output of the following code?

```
i=0

while i<3:
    i = i+1

print('i is ',i)
```

Response:

OPTIONS	RESPONSE	ANSWER
i is 3	<input checked="" type="radio"/>	<input checked="" type="radio"/>
i is 2	<input type="radio"/>	<input type="radio"/>
i is 0	<input type="radio"/>	<input type="radio"/>
i is 1	<input type="radio"/>	<input type="radio"/>

What would be the output of the following code snippet?

```
(lambda x: (x + 3) * 5 / 2)(3)
```

Response:

OPTIONS	RESPONSE	ANSWER
30.0		
0		
15.0	✓	✓
SyntaxError		

Which of the following could be a valid dictionary key:

Response:

OPTIONS	RESPONSE	ANSWER
len		✓
(3+2j)		✓
'foo'		✓
('foo', 'bar')	✓	✓
dict(foo=1, bar=2)		
['foo', 'bar']		

Python strings have a property called “immutability.” What does this mean?

Response:

OPTIONS	RESPONSE	ANSWER
You can update a string in Python with concatenation		
Strings can't be divided by numbers		
Strings in Python can be represented as arrays of chars		
Strings in Python can't be changed	✔	✔

What will be the output of the following Python code?

```
1 names = ['Amir', 'Bear', 'Charlton', 'Daman']
2 print(names[-1][-1])
```

Response:

OPTIONS	RESPONSE	ANSWER
A		
Daman		
Error		
n	✔	✔

What is the output of the following code?

```
1 l1=[10, 20, 30]
2 l2=[-10, -20, -30]
3 l3=[x+y for x, y in zip(l1, l2)]
4 print(l3)
```

Response:

OPTIONS	RESPONSE	ANSWER
Error		
0		
[-20, -60, -80]		
[0, 0, 0]	✔	✔

When iterating over an object returned from `csv.reader()`, what is returned with each iteration?

For example, given the following code block that assumes `csv_reader` is an object returned from `csv.reader()`, what would be printed to the console with each iteration?

```
1 for item in csv_reader:
2     print(item)
```

Response:

OPTIONS	RESPONSE	ANSWER
The full line of the file as a string		
The column data as a list		
The row data as a list	✔	✔
The individual value data that is separated by the delimiter		

What will be the output of the following Python code?

```
sentence = 'we are humans'  
matched = re.match(r'(.*) (.*) (.*)', sentence)  
print(matched.groups())
```

Response:

OPTIONS	RESPONSE	ANSWER
('we', 'are', 'humans')	✓	✓
(we, are, humans)		
('we', 'humans')		
'we are humans'		

Which of the following functions results in case insensitive matching?

Response:

OPTIONS	RESPONSE	ANSWER
re.M		
re.U		
re.I	✓	✓
re.X		

What will be the output of below code?

```
1 kvps = { "1" : 1, "2" : 2 }
2 theCopy = kvps
3 kvps["1"] = 5
4 sum = kvps["1"] + theCopy["1"]
5 print(sum)
```

Response:

OPTIONS	RESPONSE	ANSWER
1		
2		
7		
10	✓	✓

What will be the output of the following code?

```
goa_bagPack = {'tshirts':'Duke NumeroUno Versache','shorts':'nike,ABIBAS,PAMA'}

def ingoa(tshirts,shorts):
    print('I should wear',tshirts.split(' ')[0])

ingoa(**goa_bagPack)
```

Response:

OPTIONS	RESPONSE	ANSWER
I should wear Duke	✓	✓
I should wear t		
I should wear NumeroUno		
Error		

Choose a Regular Expression to find the sequences of one upper case letter followed by lower case letters.

Response:

OPTIONS	RESPONSE	ANSWER
[A-Za-z]		✓
[A-Z][a-z]+\$		
[A-Z]+[a-z]+\$	✓	
[A-Z]*a-z		

if -3: will evaluate to true

Response:

OPTIONS	RESPONSE	ANSWER
True	✓	✓
False		
Answer Choice 3		
Answer Choice 4		

What will be the output of below code?

```
1 s = 'Python, Java, C, C++'
2 print(s[10: 1 : -2])
```

Response:

OPTIONS	RESPONSE	ANSWER
Empty String		
avaJ,nohty		
avaJ,noht		
aa,ot	✔	✔

When is the finally block executed?

Response:

OPTIONS	RESPONSE	ANSWER
when there is no exception		
when there is an exception		
only if some condition that has been specified is satisfied	✔	
always		✔



Which of the following are true for objects of Python's set type:

Response:

OPTIONS	RESPONSE	ANSWER
The order of elements in a set is significant.		
A given element can't appear in a set more than once.		✓
Sets are mutable.	✓	✓
A set may contain elements that are mutable.		

What are the method(s) that iterator object must implement?

Response:

OPTIONS	RESPONSE	ANSWER
__iter__()		
__iter__() and __next__()	✓	✓
__iter__() and __super__()		
__iter__(), __super__() and __next__()		

What will be the output of the following Python code?

```
1 def c(f):
2     def inner(*args, **kargs):
3         inner.co += 1
4         return f(*args, **kargs)
5     inner.co = 0
6     return inner
7 @c
8 def fnc():
9     pass
10 if __name__ == '__main__':
11     fnc()
12     fnc()
13     fnc()
14     print(fnc.co)
```

Response:

OPTIONS	RESPONSE	ANSWER
4		
3	✔	✔
0		
1		

What will be the output of the following Python code snippet?

```
d1 = {"john":40, "peter":45}
d2 = {"john":40, "peter":45}
d1 == d2
```

Response:

OPTIONS	RESPONSE	ANSWER
True	✔	
False		✔
Error		
None		

What is the output of the following code?

```
def myfunc(x, y, z, a):  
    print(x + y)  
  
nums = [1, 2, 3, 4]  
  
myfunc(*nums)
```

Response:

OPTIONS	RESPONSE	ANSWER
1		
3	✔	✔
6		
10		

What will be the output of the following code?

```
import re  
regx = '(\w+)8(\w+)9(\w+)'  
  
m = re.search(regx, 'apple8mango9kiwi')  
  
len(m.groups())
```


Response:

OPTIONS	RESPONSE	ANSWER
1		
2		
3		✔
4		


# Test Log

31st Jul 2022


- 09:02 AM




Started the test with Quiz
- 10:25 AM




Went to Coding of the test
- 10:28 AM




Went to Quiz of the test
- 10:30 AM




Went to Coding of the test
- 10:58 AM




Candidate Internet Connection lost
- 10:59 AM




Candidate proceeded with test
- 11:49 AM



Went to Quiz of the test
- 11:51 AM



Went to Coding of the test
- 12:02 PM



Test ended due to time over

## About the Report

This Report is generated electronically on the basis of the inputs received from the assessment takers. This Report including the AI flags that are generated in case of availing of proctoring services, should not be solely used/relied on for making any business, selection, entrance, or employment-related decisions. Mettl accepts no liability from the use of or any action taken or refrained from or for any and all business decisions taken as a result of or reliance upon anything, including, without limitation, information, advice, or AI flags contained in this Report or sources of information used or referred to in this Report.