Lab Continuous Assessment Test – I

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Course Title: Python Programming
Course Code: ITA6017

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Question 1: (7 Marks)

Ram appeared for a placement test. There is a problem worth X points. Ram finds out that the
problem has exactly 10 test cases. It is known that each test case is worth the same number of
points.
Ram passes N test cases among them. Determine the score Ram will get.

Input Format

First line will contain T, number of test cases. Then the test cases follow.

Each test case contains of a single line of input, two integers X and N, the total points
for the problem and the number of test cases which pass for Ram's solution.

Output Format

For each test case, output the points scored by Ram.

Sample Input:

4
10 3
100 10
130 4
70 0

Sample Output:

3
100
52
0

ANSWER IN NEXT PAGE

Code:

```
n = int(input())
i=1
ans = []
while i<=n:
        a, b = input().split()
        a = int(a)
        b = int(b)
        an = (a/10) * b
        ans.append(an)
        i+=1

print("OUTPUT")
for i in ans:
        print(i)
```

OUTPUT:

```
(base) matlab@sjtg18site069:~/rajat_test_22mca0139$ python test1.py
4
10 3
100 10
130 4
70 0
OUTPUT
3.0
100.0
52.0
0.0
(base) matlab@sjtg18site069:~/rajat_test_22mca0139$ python test1.py
3
15 3
10 0
5 10
OUTPUT
4.5
0.0
5.0
```

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Question 2: (7 Marks)
Pooja is fan of pairs and he likes all things that come in pairs. He even has a flower pot
collection in which the flower pots come in pairs. One day while going through his collection
he found that there are odd number of flower pots. Someone had stolen a flower pot!
Help pooja find which type of flower pot is missing.

Input Format
The first line contains an integer T, the number of test cases.
The first line of each test case contains an integer N, the number of flower pots.
The next N lines are the types of flower pots that are left.

Output Format
For each test case, display the type of flower pot that doesn't have a pair, in a new line.

Sample Input:
1
3
1
2
1
Sample Output:
2

ANSWER IN NEXT PAGE

Code:

```
T = int(input())
i=1
ins = []
while i<=T:
        n = int(input())
        j=1
        while j<=n:
                temp = int(input())
                ins.append(temp)
                j+=1
        d = {}
        for k in ins:
                if k in d:
                        d[k] = d[k]+1
                else:
                        d[k] = 1

        print("OUTPUT:");
        for k in d.keys():
                if d[k]%2 != 0:
                        print(k)
        i+=1
```

Output:

```
(base) matlab@sjtg18site069:~/rajat_test_22mca0139$ python test2.py
1
3
1
2
1
OUTPUT:
2
(base) matlab@sjtg18site069:~/rajat_test_22mca0139$ python test2.py
1
3
2
2
2
OUTPUT:
2
(base) matlab@sjtg18site069:~/rajat_test_22mca0139$
```