


Assignment Case	
COMP6047 Algorithm and Programming	
Computer Science	<Case Code>
<i>Valid on Compact Semester Year 2019/2020</i>	Revision 00

Soal*Case***Uneven Candles**

Jojo's mother is celebrating her birthday today. Since they are out of birthday candles, Jojo is tasked to buy some candles. However, he is not buying the candles on the usual store: he sets out to a much cheaper seller so he can get more candles than what he should be able to.

After purchasing, though, to his utter shock, Jojo realized that the candles aren't of the same height! Therefore, he decided to do this: he measured all the candles' height, then split them into two clusters. He put all the candles with odd height on one cluster and the rest on the other. He will then use one cluster to lit up his mother's cake and keep the other so he can use them on his own birthday later. After splitting them, he wants to know the total sum of candles' height on both clusters. Help him to calculate by creating a program for him.

Format Input

The input starts with an integer T , the number of test cases. Each test case consists of two lines.

The first line contains an integer N , represents the total candles Jojo bought. The second line contains N space-separated integers, each integer represents the height of the candle.

Format Output

For each test case, print the total height of both clusters' candles height separated by a space, with the even cluster first before the odd cluster.

Constraints

$$1 \leq T \leq 100$$

$$1 \leq N \leq 1000000$$

$$1 \leq N_i \leq 100$$

Sample Input	Sample Output
1 10 4 5 7 3 2 8 9 3 5 5	14 37

Note:

Don't forget to add the newline character after printing the output.