

Arranging Tables



In a restaurant, there are N groups waiting to have dinner. Each group will have atleast 1 and atmost 4 people. A table has only four seats. The restaurant owner want to arrange minimum number of tables so that all the groups can have their dinner. However, people of the same group wants to sit on the same table and at the same time a table can have multiple groups. Help the restaurant owner to find the minimum number of tables required.

Input Format

First line of input contains T - number of test cases. Its followed by $2T$ lines, the first line contains N - the number of groups waiting to have their dinner and the second line contains N integers where i^{th} number denotes the number of people in the i^{th} group.

Constraints

$$1 \leq T \leq 100$$

$$1 \leq N \leq 10^4$$

Output Format

For each test case, print the minimum number of tables required, separated by a new line.

Sample Input 0

```
2
5
1 2 4 3 3
8
2 3 4 4 2 1 3 1
```

Sample Output 0

```
4
5
```

Explanation 0

Self Explanatory