

# Tresi and Girls

Once upon a time, there's a person named Tresu. He's quite old but hasn't found the love of his life. He starts to feel uncomfortable with his life. On another day, he found a magic lamp that will grant one wish for him. Of course, Tresu wishes for many girls to accompany him. Finally, Tresu has many beautiful girls that love him.

But since Tresu never had a girlfriend before, he's having trouble fulfilling the girls' needs. This is caused because the girls doesn't want to feel lonely or too overcrowded. Tresu has  $N$  rooms in his house. After some observation, Tresu knows that each girl will feel lonely if left in a room alone or with only one other girl. Tresu also knows that if a room contains 5 or more girls, there will be chaos in that room. Tresu doesn't want his girls to be unhappy. But, the time to move a girl to another room is one minute since Tracy have to sweet talk to the girl first. Tresu asks for your help to decide the minimum time that he must spend for the girls so they can live happily.

## Input

First line contains a number  $T$  which is the number of test cases. Each test case consists of 2 lines. First line is  $N$  which is the number of rooms that Tresu has. Second line contains  $N$  number  $B_i$  which is the number of girls on room  $i$ .

## Output

For each test case, output a line containing the time needed for Tresu to satisfy the girls. If Tresu can't satisfy all the girls, output "Tresu gagal memuaskan gadisnya."

## Sample Input

```
3
3
1 2 3
5
0 3 4 3 0
3
1 1 0
```

## Sample Output

```
1
0
Tresu gagal memuaskan gadisnya.
```

## Explanation

- For the first case, Tresu can move a girl from room 1 to room 2, for a total time of 1 minute.
- For the second case, all the girls are already happy.
- For the third case, there aren't any configuration that can make all the girls happy.

## Constraint

- $1 \leq T \leq 10$
- $1 \leq N \leq 100000$
- $0 \leq b_i \leq 4$