Thom doesn't like maths, so he always tries to do his math homework first. His last homework was to find the number of ways we can add 3 non-negative integer such that thier sum is $N$.

$$
a+b+c=N
$$

Thom had already done his homework, but since he is a bit messy; he mixed the answers and now he doesn't know to which $N$ belongs. Help Thom to find which $N$ belong to his answers, consider that Tom is not good at math so he may have found wrong answers.

## Input

The first line contains a single integer $T(1 \leq T \leq 10000)$ and then $T$ lines follows, each one contains an integer $S$ ( $3 \leq S \leq 50000000$ ) that represent the answer of Thom.

## Output

For each test case, your program must print the value of $N$ if Thom's answer was correct otherwise print 'No solution'

## Sample Input

## Sample Output

1
No solution
No solution
No solution
12
No solution
16
No solution
23
No solution

