uva Dnline Judge

## 10125 Sumsets

Given S , a set of integers, find the largest $d$ such that $a+b+c=d$ where $a, b, c$, and $d$ are distinct elements of S .

## Input

Several S, each consisting of a line containing an integer $1 \leq n \leq 1000$ indicating the number of elements in $S$, followed by the elements of $S$, one per line. Each element of S is a distinct integer between - 536870912 and +536870911 inclusive. The last line of input contains ' 0 '.

## Output



For each S , a single line containing $d$, or a single line containing 'no solution'.

## Sample Input

5
2
3
5
7
12
5
2
16
64
256
1024
0

## Sample Output

12
no solution

