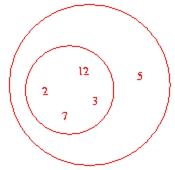
# **Problem C - Sumsets**

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  $1 \le n \le 1000$  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**

## **Output for Sample Input**

12 no solution

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