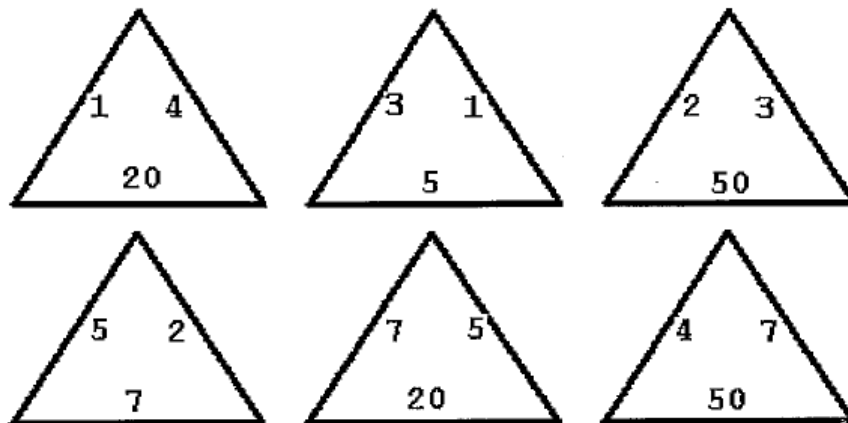
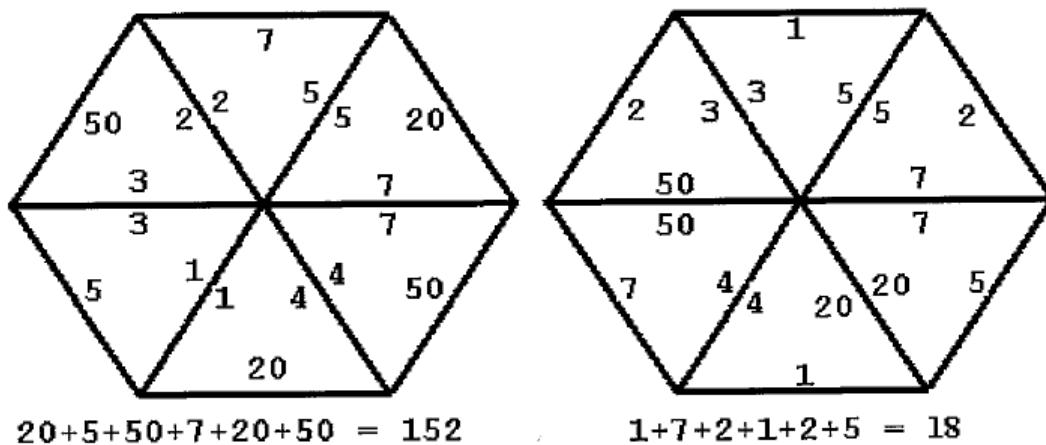


I: Triangle Game

Time Limit: 2 second(s)



In the triangle game you start off with six triangles numbered on each edge, as in the example above. You can slide and rotate the triangles so they form a hexagon but the hexagon is only legal if edges common to two triangles have the same number on them. You may not flip any triangle over. Two legal hexagons formed from the six triangles are illustrated below.



The score for a legal hexagon is the sum of the numbers on the outside six edges.

Your problem is to find the highest score that can be achieved with any six particular triangles.

Input

The input will contain one test case which consists of six lines with three integers separated by spaces. All values will be between 1 and 100 inclusive. Each line contains the numbers on the triangles in clockwise order. Compare the top image with the first sample input for clarification.

Output

On a single line output only the word **none** if there are no legal hexagons or the highest score if there is a legal hexagon.

Sample Input and Output

Sample Input 1	Output for Sample Input
1 4 20 3 1 5 50 2 3 5 2 7 7 5 20 4 7 50	152

Sample Input 2	Output for Sample Input
10 1 20 20 2 30 30 3 40 40 4 50 50 5 60 60 6 10	21

Sample Input 3	Output for Sample Input
10 1 20 20 2 30 30 3 40 40 4 50 50 5 60 10 6 60	none