

Twenty Seven

locked

Problem	Submissions	Leaderboard	Discussions
---------	-------------	-------------	-------------

Given 5 numbers, find out if you can place the arithmetic operators {+, −, *} between them to create an arithmetic expression yielding to the value 27. Note that you can arrange the number in any arrangement(Hint: use next_permutation) so if the numbers given are 1 2 3 4 5 you can place the operators 1 + 2 + 3 * 4 - 5 or 5 * 2 + 3 - 1 * 4 also consider the +, -, * have the same precedence so just consider the calculation in a sequential way. for example here 1 + 2 + 3 * 4 - 5 --> (((1 + 2) + 3) * 4) - 5 so you will do the first addition and then the second, then the multiplication then the subtraction so don't consider the * to have higher precedence. Solve this problem using a recursive brute force solution.

Input Format

The Input consists of 5 of positive Integers, each between 1 and 50.

Constraints

see input format

Output Format

Print ‘Possible’ (without quotes) if there exists an arithmetic expression, Otherwise print ‘Impossible’

Sample Input 0

42 8 2 32 37

Sample Output 0

Possible

C++20

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1