Twenty Seven



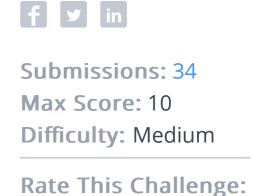
Problem

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 $1 + 2 + 3 * 4 - 5 \longrightarrow ((((1 + 2) + 3) * 4) - 5)$ 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.



More

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

<u>Upload Code as File</u> Test against custom input

Run Code

Submit Code