# Problem 1 – Groups of Equal Sum

You are given **4 integers**. Write a program to check whether the numbers can be **split into 2 groups of equal sum**.

## Input

* The input is read from the console. It consists of 4 lines, each holding an integer number.

## Output

* If the numbers can be split into two groups of equal sums.
  + Print “Yes” at the first line.
  + Print the **sum of each group** at the second line.
* If the numbers **cannot** be split into two groups of equal sums, print “**No**” at the first line.

## Constraints

* All input numbers are integers in the range **[1 … 1 000]**.
* Time limit: **100 ms**. Allowed memory: **16 MB**.

## Sample Input and Output

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 3  2  4  5 | Yes  7 | 3+4 = 5+2 |
| 1  3  1  1 | Yes  3 | 3 = 1+1+1 |
| 1  2  1  1 | No | No solution |