## Problem 2 – Pairs

You are given a number **N** and **2\*N elements** (integer numbers). The first and the second element form a **pair**, the third and the fourth element form a pair as well, etc. Each pair has a **value**, calculated as the **sum** of its two elements. Your task is to write a program to check **whether all pairs have the same value** or print the **max difference** between two consecutive values.

### Input

You are given at the console **even number of integers**, all in a single line, separated by a space.

### Output

The output is single line, printed at the console.

* In case all pairs have the same value, print "**Yes, value=…**" and the value.
* Otherwise, print "**No, maxdiff=…**" and the maximal difference between two consecutive values, always a **positive integer**.

### Constraints

* All input values will be integers in the range [-1000…1000] inclusive.
* The number of elements are even number in the range [2…1000] inclusive.
* Allowed work time for your program: 0.25 seconds.
* Allowed memory: 16 MB.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 1 2 0 3 4 -1 | Yes, value=3 | values = {3, 3, 3} --> equal values |
| 1 2 2 2 | No, maxdiff=1 | values = {3, 4}, different values --> max difference = 4-3 = 1 |
| 1 1 3 1 2 2 0 0 | No, maxdiff=4 | values = {2, 4, 4, 0}, differences = {2, 0, 4}, max difference = 4 |
| 5 5 | Yes, value=10 | values = {10} --> single value --> equal values |
| -1 0 0 -1 | Yes, value=-1 | values = {-1, -1}, equal values |