Problem CCU13b19 – 20 Nearest and Farthest Pairs

Time Limit: 2 Seconds

For a given sequence A of n nonnegative integers, the goal is find $0 \le i < j \le n$ such that A[i] = A[j] and

- problem 19: j i is minimized; or
- problem 20: j i is maximized.

Technical Specification

- 1. n < 1000000.
- 2. $0 \le A[i] < 2000$ for all i.

Input File Format

There are at most 6 test cases. For each test case, the first line contains the integer n, and the next line consists of the n integers $A[0], A[1], \ldots A[n-1]$. The case n=0 indicates the end of input.

Output Format

For each test case, output the optimal (i, j) : A[i] in one line. If there is more than one optimal solution, output the one with minimum i. For the case of no solution, output "No solution".

Input

```
6
1 3 3 4 4 1
5
5 4 3 2 1
6
2 4 1 4 1 8
```

Output for the Sample Input

For problem 19:

(1,2):3 No solution (1,3):4

For problem 20:

(0,5):1 No solution (1,3):4