A B2-Sequence is a sequence of positive integers $1 \leq b_1 < b_2 < b_3 \ldots$ such that all pairwise sums $b_i + b_j$, where $i \leq j$, are different.

Your task is to determine if a given sequence is a B2-Sequence or not.

## Input

Each test case starts with $2 \leq N \leq 100$, the number of elements in a sequence. Next line will have $N$ integers, representing the value of each element in the sequence. Each element $b_i$ is an integer such that $b_i \leq 10000$. There is a blank line after each test case. The input is terminated by end of file (EOF).

## Output

For each test case you must print the number of the test case, starting from 1, and a message indicating if the corresponding sequence it is a B2-Sequence or not. See the sample output below. After each test case you must print a blank line.

## Sample Input

```
4
1 2 4 8

4
3 7 10 14
```

## Sample Output

```
Case #1: It is a B2-Sequence.

Case #2: It is not a B2-Sequence.
```