# 11063 B2-Sequence

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

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

## Input

Each test case starts with  $2 \le N \le 100$ , 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  $b_i \le 10000$ . 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.