# IOITC 2022 TST 3

## Add Subtract Equalize

You have an array $A$ of length $N$. You can apply the following operations at most 1000 times.

- Choose any subsequence S = $\{A_{i_1}, A_{i_2}, \ldots, A_{i_x}\}$ and choose any element $A_{i_k}$ belonging to S and either add it to all the elements of S or subtract it from all the elements of S.

You are required to make all the elements of the array equal. At every moment, all the values are required to lie in the range $[-10^{18}, 10^{18}]$, otherwise you will get WA verdict.

Note - Scoring is based on the number of operations used. Please refer to the scoring section.

### Input

- The first line contains a single integer $N$ denoting the length of array $A$.
- Second line contains $N$ space separated integers $A_1, A_2, \ldots, A_N$ - denoting the array $A$.

### Output

- On the first line, output $Q$ denoting the number of operations you are going to perform.

Description of the next $Q$ lines follow:

- On the first line, output $x$ denoting the number of elements in the subsequence.
- On the second line, output $x$ space-separated integers denoting the indices of the selected subsequence.
- On the third line, Output $+ k$ or $- k$ where $k$ denotes the index of the element chosen in the subsequence.

### Test Data and Scoring

In all inputs,

- $2 \leq N \leq 1000$.
- $0 \leq A_i \leq 10^5$

Let $Q$ denote the number of operations performed.

**Scoring 1 (10 Points)**: $Q \leq 1000$

**Scoring 2 (30 Points)**: $Q \leq 700$

**Scoring 3 (60 Points)**: $Q \leq 400$

**Scoring 4 (100 Points)**: $Q \leq 100$

**Sample Input 1**

```
4
1 2 3 4
```

**Sample Output 1**

```
2
2
1 3
+ 1
2
1 2
+ 1
```

**Sample Input 2**

```
3
2 8 4
```

**Sample Output 2**

```
2
1
1
+ 1
2
1 3
+ 3
```

## Limits

Time: 1 second

Memory: 256 MB