Let's play a number game. I will give you $2 N-1\left(N=2^{k}, k=1,2,3,4,5,6,7,8,9,10\right)$ numbers, each number is a positive integer not bigger than 1000. Can you choose $N$ of them, and add them all to a integer $S$, to make that $S / N$ is a integer? If there are many solutions, you can only find one of them.

## Input

The input file contains several scenarios. Each of them consists of 2 lines.
For each scenario, the first line is a number $N$, the second line consist of $2 N-1$ numbers. There is a space between two numbers.

## Output

For each scenario, print a single line ' No ' if you can't find an answer. Otherwise print a line 'Yes', and then the other line containing $N$ numbers (in any order), there should be a space between two numbers.

```
Sample Input
2
123
4
1234567
0
```


## Sample Output

```
Yes
```

13
Yes
1357

