COCI '20 Contest 2 #1 Crtanje

Time Limit: 1.0s   **Memory Limit:** 512M

Josip used to code in Logo. He loved to draw pictures, but those days are sadly over. Nostalgic, he decided to draw a line that represents the net worth of his company over a period of n days.

For each of the n days, he knows if the net worth of his company increased by one unit (represented by `+`), decreased by one unit (represented by `-`), or remained the same (represented by `=`) during that day. Before the first day, the net worth was equal to zero.

Josip will draw the line in a big infinite matrix of characters. Indices of matrix rows grow upwards, and indices of columns grow to the right. For the i-th day he will draw some character in the i-th column.

The character and the index of the row are decided by the following rules:

- If the net worth increased during the i-th day, he will draw `/` in the row with index equal to the net worth at the beginning of the day.
- If the net worth decreased during the i-th day, he will draw `\` in the row with index equal to the net worth at the end of the day.
- If the net worth didn't change during the i-th day, he will draw `_` in the row with index equal to the net worth during the day.

All other cells are filled with `.`.

Your task is to output the minimal matrix that contains the whole line, i.e. contains all characters `/`, `\` and `_` that Josip drew.

Input

The first line contains an integer n $(1 \le n \le 100)$, the number of days.

The second line contains a string of n characters `+`, `-` and `=` that represents how the company's net worth changed over the given period.

Output

Output the described matrix.

Scoring

In test cases worth 40% points the input won't contain the character `-`.

Sample Input 1

```
7
++---==
```

Sample Output 1

```
./\....
/..\...
....\__
```

Sample Input 2

```
5
+=+=+
```

Sample Output 2

```
..._/
._/..
/....
```

Sample Input 3

```
4
--=+
```

Sample Output 3

```
\...
.\_/
```