

Contest Duration: 2023-02-26(Sun) 09:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20230226T2100&p1=248>) - 2023-02-26(Sun) 10:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20230226T2240&p1=248>) (local time) (100 minutes)

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C - LRUD Instructions 2

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Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 300 points

Problem Statement

Takahashi is on a two-dimensional plane. Starting from the origin, he made N moves.

The N moves are represented by a string of length N as described below:

- Takahashi's coordinates after the i -th move are:
 - $(x + 1, y)$ if the i -th character of S is R;
 - $(x - 1, y)$ if the i -th character of S is L;
 - $(x, y + 1)$ if the i -th character of S is U; and
 - $(x, y - 1)$ if the i -th character of S is D,
- where (x, y) is his coordinates before the move.

Determine if Takahashi visited the same coordinates multiple times in the course of the N moves (including the starting and ending points).

Constraints

- $1 \leq N \leq 2 \times 10^5$
- N is an integer.

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- S is a string of length N consisting of R, L, U, and D.

Input

The input is given from Standard Input in the following format:

```
N  
S
```

Output

Print Yes if Takahashi visited the same coordinates multiple times in the course of the N moves; print No otherwise.

Sample Input 1

Copy

```
5  
RLURU
```

Copy

Sample Output 1

Copy

```
Yes
```

Copy

Takahashi's coordinates change as follows: $(0, 0) \rightarrow (1, 0) \rightarrow (0, 0) \rightarrow (0, 1) \rightarrow (1, 1) \rightarrow (1, 2)$.

Sample Input 2

Copy

```
20  
URDDLLLUUURRRDDDDLLLL
```

Copy

Sample Output 2

Copy

```
No
```

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