algoleague

CD

Problem

Submissions

Discussion Coming Soon

CD is the abbreviation for "Compact Disk", a digital optical disc data storage format.

You are given two strings. Both of the strings only contain the letters "C" and "D".

Your goal is to find out if the second string can be obtained by applying certain operations on the first string.

The operations are:

- You can add "CD" to the end of the String.
- You can add "DCDC" to the end of the string.
- You can add "CDDD" to the end of the string.
- You can delete the last 3 characters at the end of the string if the length of the string is more than or equal to 3.

Input Format

x in the first line, length of the first string.

S_1 in the second line, the first string.

y in the third line, length of the second string.

S_2 in the forth line, the second string.

Output Format

If it is possible to obtain the second string print "YES", if not print "NO" (print the answer without quotes).

Constraints

$1 \leq x, y \leq 2 * 10^5$

S_1 and S_2 only contain the letters "C" and "D".

Sample Input 1

```
3
CCC
6
CCCDCD
```

Sample Output 1

```
YES
```

Explanation 1

- CCC --> CCCDCDC (2nd operation)
- CCCDCDC --> CCCD (4th operation)
- CCCD --> CCCDCD (1st operation)

C++ (GCC 9.2.0) Bright **Memory Limit (kB) :** 256000 **Time Limit (s) :** 1

```cpp
#include<bits/stdc++.h>
using namespace std;

int main() {
    int x, y;
    cin >> x >> y;
    string s1, s2;
    cin >> s1 >> s2;

    cout << "YES" << endl;
    return 0;
}
```

Upload File

Test against custom test case

Run Code

Submit

Sample Test Case 0

Accepted

Input(stdin)

```
3
CCC
6
CCCDCD
```

Output(stdin)

```
YES

```

Expected Output

```
YES
```