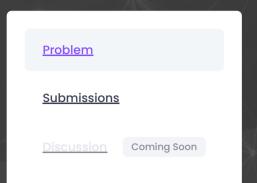
# //algoleague



## CD

• Contest List • Algorithm Competition Summer Camp 2023 Foundation Upsolving Contest • Problem List • CD • Problem



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

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

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

# Sample Input 1 🔲

Sample Output 1 🔲

YES

CCC 6

CCCDCD

### **Explanation 1**

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

C++ (GCC 9.2.0)

Hinaluda (bita/atala) i by

Bright \

Memory Limit (kB): 256000 Time Limit (s):1

```
1 #include<Dits/Stac++.n>
   2
     using namespace std;
   3
   4 = int main() {
   5
          int x, y;
   6
          cin >> x >> y;
   7
          string s1, s2;
   8
          cin >> s1 >> s2;
   9
          cout << "YES" << endl;</pre>
  10
  11
          return 0;
  12 }
13
                               Test against custom test case
                                                                         Run Code
     1 Upload File
                                 Accepted
     ✓ <u>Sample Test Case 0</u>
                                Input(stdin)
                                   1 3
                                   2 CCC
                                   3 6
                                   4 CCCDCD
                                Output(stdin)
                                   1 YES
                                   2
                                Expected Output
                                 1 YES
```

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