**Monk and Digital World**

Attempted by: **1125**

/

Accuracy: **91%**

/

Maximum Score: **20**

/

5 Votes

Tag(s):

Easy, easy, strings

**PROBLEM**

**EDITORIAL**

**MY SUBMISSIONS**

**ANALYTICS**

After doing a lot of hardwork, Monk has finally reached to the second checkpoint. He became such an awesome programmer that he found a way to enter into the **Digital World**.   
While observing the beauty of the new world, he saw two strings AA and BB of same length NN, fighting with each other. String AA has the power to take any two characters of its own and swap them, and can perform this swap operation any number of times. Monk being curious, wants to know whether String AA can convert itself into String BB using swap operations.

**INPUT:**  
First line of input will consists of integer NN. Next line will consists of NN lowercase English alphabets('a'-'z') denoting string AA. Next line will consists of NN lowercase English alphabets('a'-'z') denoting string BB.

**OUTPUT:**  
Print "YES" (without quotes), if String AA can convert itself to string BB using this swap operation any number of times, else print "NO" (without quotes).

**CONSTRAINTS:**  
1 ≤ N ≤ 1000

**SAMPLE INPUT**

4

abcd

bcda

**SAMPLE OUTPUT**

YES

**Explanation**

String AA ("abcd") can convert itself to String BB ("bcda") using sequence of swap operations.

**Time Limit:**1.0 sec(s) for each input file.

**Memory Limit:**256 MB

**Source Limit:**1024 KB

**Marking Scheme:**Marks are awarded when all the testcases pass.

**Allowed Languages:**C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Scala 2.11.8, Swift, Visual Basic

<https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/monk-and-digital-world-code-monk/>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

//string a = "abcd";

//string b = "bcda";

int n = int.Parse(Console.ReadLine());

string a = Console.ReadLine();

string b = Console.ReadLine();

char[] a\_ch = a.ToCharArray();

char[] b\_ch = b.ToCharArray();

Array.Sort(a\_ch);

Array.Sort(b\_ch);

string ans = "YES";

for (int i = 0; i < a.Length; i++)

{

if (a\_ch[i] != b\_ch[i])

{

ans = "NO";

break;

}

}

Console.WriteLine(ans);

Console.ReadLine();

}

}

}