

String Subset

Lab Exam 2

Computer Programming
Date: 25 November, 2019

Problem Code: **P2 [20 Marks]**

Problem Statement: Given two strings S1 and S2 both consisting of only lower case English alphabets, check if S2 is subset of S1, i.e. each character at index i in S2 belongs to a unique index j in S1.

Input

First line of the input denotes the total number of test cases T . Each test case contains 2 lines, first line has S1, second line has S2.

Output

For each test case, output "YES" if S2 is subset of S1, "NO" otherwise(without quotes).

Constraints

$1 \leq T \leq 10$

Subtask 1 (8 points) $1 \leq |S1|, |S2| \leq 10^3$

Subtask 2 (12 points) $1 \leq |S1|, |S2| \leq 10^5$

Time Limit: 1 sec

Memory Limit: 256 MB

Sample Test Case

Input	Output
3	YES
abcdef	NO
abd	NO
abcdef	
abdd	
def	
abc	