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Easy

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Is Subsequence

Asked By :- amazon

392. Is Subsequence

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Given two strings `s` and `t`, return `true` *if* `s` *is a* ***subsequence*** *of* `t`, *or* `false` *otherwise.*

A **subsequence** of a string is a new string that is formed from the original string by deleting some (can be none) of the characters without disturbing the relative positions of the remaining characters. (i.e., `"ace"` is a subsequence of `"abcde"` while `"aec"` is not).

Example :-

s = "abc" m, m = s.length = 3

t = "ahbgdc" n, n = t.length

O(m+n) linear.

i = 0, j = 0

```
while (i < m && j < n) {
    if (s[i] == t[j])
        i++;
    j++;
}

if (i == m)
    return true;
return false;
```

s = " a x c "

t = " a h b g c "

if (i == m)

मत Take

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बहुत सारा S देदिया

$(S_1, S_2, S_3, \ldots S_K)$

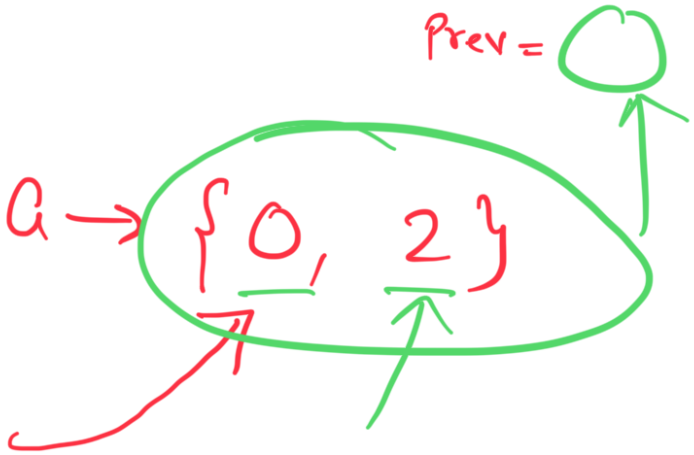
$K >= 10^9$

$S =$ a a b c

Prev = 3

$t =$ a h a b g d c

(t) char	indices
a	{0, 2}
h	{1}
b	{3}
g	{4}
d	{5}
c	{6}



upperbound (vec.beg.(), vec.c , prev);

Example-2..

$S =$ "aabc"

$t =$ "a h b g d c" Prev = 0

(t) char	indices
a	{0}

a → {0}

h	{1}
b	{2}
g	{3}
d	{4}
c	{5}

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