

seleneal1996 — **●**





CSES Problem Set

Substring Distribution

TASK | SUBMIT | RESULTS | STATISTICS | HACKING

Submission details

Task:	<u>Substring Distribution</u>
Sender:	seleneal1996
Submission time:	2021-12-15 05:18:25
Language:	C++17
Status:	READY
Result:	ACCEPTED

Test results

test	verdict	time	
#1	ACCEPTED	0.01 s	<u>>></u>
#2	ACCEPTED	0.01 s	<u>>></u>
#3	ACCEPTED	0.12 s	<u>>></u>
#4	ACCEPTED	0.12 s	<u>>></u>
#5	ACCEPTED	0.10 s	<u>>></u>
#6	ACCEPTED	0.12 s	<u>>></u>
#7	ACCEPTED	0.13 s	<u>>></u>
#8	ACCEPTED	0.12 s	<u>>></u>
#9	ACCEPTED	0.13 s	<u>>></u>

Code ▲

	<pre>#include<bits stdc++.h=""></bits></pre>
2	using namespace std;
4	<pre>const int mxN = 1e5+5;</pre>
5	<pre>sa[mxN], pos[mxN], tmp[mxN], lcp[mxN];</pre>
6	int gap, N;
7	string S;
8	
9	<pre>bool comp(int x, int y) {</pre>
10	<pre>if (pos[x] != pos[y])</pre>
11	<pre>return pos[x] < pos[y];</pre>
12	x += gap;
13	y += gap;
14	
15	
16	
17	<pre>woid suffix() {</pre>
18	for (int i = 0; i < N; i++)
19	sa[i] = i, pos[i] = S[i];
20	
21	<pre>for (gap = 1;; gap <<= 1) {</pre>

String Algorithms

Counting Patterns Pattern Positions Distinct Substrings Repeating Substring String Functions Substring Order I Substring Order II Substring Distribution

Your submissions

2021-12-15 05:18:25

```
14/12/21 22:43
                                            CSES - Substring Distribution - Results
               sort(sa, sa+N,
                                 comp
                    (int i = 0; i < N-1; i++)
tmp[i+1] = tmp[i] + comp(sa[i],
                    (int i = 0; i < N i+
pos[sa[i]] = tmp[i];
tmp[N - 1] == N - 1)
                (tmp[N
                                   = N -
  31
            build_lcp(
                     i = 0, k = 0; i < N; i++) if (pc
                    j = sa[pos[i] + 1];
(S[i + k] == S[j + k])
  34
                    k+
               lcp[pos[i]] = k
                   (k) k-
  42
           pre[mxN];
           main(){
           cin>>S; N = S.size();
           suffix
           build_lcp()
               prev
                    i = 0; i < N; i++) {
               pre[prev -
               pre[N - sa[i] + 1]--;
               prev = lcp[i]
                     i = 1; i \ll N; i++
               cout << pre[i
               pre[i+1] +=
                             pre[i];
 Share code to others
 Test details ▲
 Test 1
 Verdict: ACCEPTED
                           input
  aaaaaaaaa
                                                   6
                     correct output
  1111111111
                                                    O
                       user output
```

O

1111111111





