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Statement

Submissions



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Top users by time

#	User	Time
1	ByeWorld	82 ms
3	Arman10	129 ms
4	Todoroki_Shouto	227 ms
5	albertnugroho128	244 ms

Top users by memory

#	User	Memory
1	albertnugroho128	1100 KB
2	takeonicky	1352 KB
3	llcxmn	1352 KB
4	Angustavia	1356 KB

Arkavidia 9.0 - Penyisihan CP > F

Submission #4248449

Arkavidia 9.0 - Penyisihan CP / F. Fondasi Tembok Ajaib

Accepted • ByeWorld • C++20 • September 2, 2025 at 09:00:58

Sample Test Data Results



Test Data Results



```
1 #include <bits/stdc++.h>
2 #pragma GCC optimize("O3", "unroll-loops")
3 #define ll long long
4 #define int long long
5 #define pb push_back
6 #define fi first
7 #define se second
8 #define lf ((id<=l))
9 #define rg ((id<=r))
10 #define md ((l+r)>>1)
11 #define ld long double
12 using namespace std;
13 typedef pair<ll,ll> pii;
14 const int MAXN = 1e5+5;
15 const int MOD = 1e9+7;
16 const ll INF = 1e17;
17 int sum(int a, int b){ return (a+MOD+b)%MOD; }
18 void chsum(int &a, int b){ a = sum(a,b); }
19 int mul(int a, int b){ return (a*b)%MOD; }
20 void chmul(int &a, int b){ a = (a*b)%MOD; }
21 int expo(int a, int b){
22     if(b==0) return 1;
23     int te = expo(a, b/2); te = mul(te, te);
24     return (b%2 ? mul(te, a) : te);
25 }
26 void chmn(auto &a, auto b){ a = min(a, b); }
27 void chmx(auto &a, auto b){ a = max(a, b); }
28
29 int n, sta, x;
30 string s, t;
31 int val[MAXN], ans[MAXN];
32
33 struct seg {
34     int st[4*MAXN], add[4*MAXN], tim[4*MAXN];
35     void bnc(int id, int l, int r){
36         if(l==r) return;
37         if(tim[id] != 1){
38             int v = tim[id];
39             tim[lf] *= v; add[lf] *= v; st[lf] *= v;
40             tim[rg] *= v; add[rg] *= v; st[rg] *= v;
41             tim[id] = 1;
42         }
43         add[id] += v; st[id] += v;
44         add[id] = 0;
45     }
46     void bd(int id, int l, int r){
47         tim[id] = 1;
48         if(l==r) return;
49         bd(lf, l, md); bd(rg, md+1, r);
50     }
51     int que(int id, int l, int r, int x, int y){
52         if(x<=l && r<=y) return st[id];
53         if(r<x || y<l) return -INF;
54         bnc(id, l, r);
55         return max(que(lf, l, md, x, y), que(rg, md+1, r, x, y));
56     }
57     void TIM(int id, int l, int r, int x, int y, int v){
58         if(x<=l && r<=y){
59             tim[id] *= v; add[id] *= v; st[id] *= v;
60             return;
61         }
62         if(r<x || y<l) return;
63         bnc(id, l, r);
64         TIM(lf, l, md, x, y, v); TIM(rg, md+1, r, x, y, v);
65
66         st[id] = max(st[lf], st[rg]);
67     }
68     void ADD(int id, int l, int r, int x, int y, int v){
69         if(x<=l && r<=y){
70             if(r<x || y<l) return;
71             bnc(id, l, r);
72             ADD(lf, l, md, x, y, v); ADD(rg, md+1, r, x, y, v);
73
74             st[id] = max(st[lf], st[rg]);
75         }
76     }
77 } A;
78 signed main(){
79     ios_base::sync_with_stdio(0);cin.tie(0);cout.tie(0);
80     cin>>n>>sta>>x;
81     cin>>s; s+='.'+s;
82     cin>>t; t+='.'+t;
83     val[0] = sta;
84     for(int i=1; i<=n; i++){
85         ans[i] = -1;
86         val[i] = val[i-1]+x;
87         if(s[i]==t[i]){
88             if(s[i]!='#'){
89                 val[i] -= 3*x;
90             }
91         }
92     }
93     int ans2 = -1;
94     for(int i=1; i<=n; i++){
95         if(ans[i] > ans2){
96             ans2 = ans[i];
97         }
98     }
99     cout<<ans2<<endl;
100 }
```

```

98         } else {
99             val[i] /= 2;
100         }
101     }
102     // cout << i << ' ' << val[i] << " val\n";
103 }
104 for(int i=1; i<=n; i++){
105     if(val[i]<=0){
106         for(int i=i+1; i<=n; i++)
107     }
108
109     A.bd(1,1,n);
110     for(int i=n; i>=1; i--){
111         if(i+1<=n){
112             if(s[i+1]==t[i+1]){
113                 if(s[i+1]=='#'){
114                     A.ADD(1,1,n,i+1,n,3*x);
115                 } else {
116                     A.TIM(1,1,n,i+1,n,2); A.ADD(1,1,n,i+1,n,1);
117                 }
118             }
119             A.ADD(1,1,n,i+1,n,-x);
120         }
121     }
122     // if(i==2){
123     //     // cout << "kena\n";
124     //     for(int j=i; j<=n; j++) cout << A.que(1,1,n,j,j) << " pp\n";
125     // }
126
127     if(p != val[i-1]+x; ...
128     if(s[i]=='#' && t[i]=='.') p -= 3*x;
129     if(s[i]=='.' && t[i]=='#') p /= 2;
130
131     // if(i==2) cout << p << " pp\n";
132     if(p<=0){
133         ans[i] = i; continue;
134     }
135     int l=i+1, r=n, mid=0, cnt=-1;
136     while(l<=r){
137         mid = md;
138         if(A.que(1,1,n,i+1,mid) >= p){
139             cnt = mid; r = mid-1;
140         } else l = mid+1;
141     }
142     ans[i] = cnt;
143 }
144
145 for(int i=1; i<=n; i++)
146     cout << ans[i] << " \n"[i==n];
147 }

```