Submission

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8192204	02:03:49	Dvaput	✓ Accepted	0.27 s	C++

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dvaput.cpp	1433 bytes	c338f34867e64c7a8d85539a6b84368eb8727119	download

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dvaput.cpp

```
1 #include <bits/stdc++.h>
 2 using namespace std;
 4 const int maxsize = 2000000;
 5 vector<int> _suffix_arr,_pos;
6 int N,indx;
7 string S;
9 bool comp(int x, int y){
       if (_pos[x] != _pos[y])
10
           return _pos[x] < _pos[y];</pre>
      Help
           .ndx;
       y+=indx;
13
```

```
16
17 void suffix array(){
       for (int i = 0; i < N; i++){
18
           suffix arr.push back(i);
19
           _pos.push_back(S[i]);
20
21
       int tmp[maxsize];
22
23
       for (indx = 1; indx <<= 1) {
           sort( suffix arr.begin(), suffix arr.end(), comp);
24
           for (int i = 0; i < N-1; i++)
25
               tmp[i+1] = tmp[i] + comp( suffix arr[i], suffix arr[i+1]);
26
27
           for (int i = 0; i < N; i++)
               pos[ suffix arr[i]] = tmp[i];
28
           if (tmp[N-1] == N-1)
29
               break;
30
31
32 }
33
34 int lcp(){
       int longest_prefix_size=0;
35
       vector<int> _lcp(N);
36
       for (int i=0, k=0; i< N; i++){
37
           if (_pos[i] != N-1){
38
39
               int j = _suffix_arr[_pos[i] + 1];
40
               while (S[i + k] == S[j + k])
                    k++;
41
               lcp[pos[i]+1] = k;
42
               longest_prefix_size = max(longest_prefix_size,_lcp[_pos[i]+1]);
43
               if (k) k--;
44
           }
45
46
       return longest_prefix_size;
47
48 }
49
50 int Dvaput(){
       suffix_array();
51
       return lcp();
52
53 }
54
      Help
           (){
55
       ios base::sync with stdio(false);
56
       cin.tie(NULL);
57
```

return (x<N &&y<N)?_pos[x]<_pos[y]:x>y;

14 15 }

```
58     cin>>N>>S;
59     cout<<Dvaput();
60     return 0;
61 }</pre>
```