Submission

ID	DATE	PROBLEM	STATUS	CPU LANG	
	TEST CASES				
8199902	01:49:25	String Matching	✓ Accepted	0.10 s C++	

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FILENAME	FILESIZE	SHA-1 SUM	
stringmatching.cpp	1271 bytes	3ac58fadd0ebc57e5e8fd2b6f0475b3cb8325a2c	download

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stringmatching.cpp

```
1 #include<bits/stdc++.h>
 3 using namespace std;
 5 #define INF 999999
 7 vector<int> match(string cad, string patron) {
       int pos = 0;
10
       int sp = 0;
           kp = 0;
       vector<int> a;
13
```

```
for(int i = 1; i <= patron.size(); i++) {</pre>
16
            pos = b[i - 1];
17
            while (pos != -1 && patron[pos] != patron[i - 1])
18
                pos = b[pos];
19
            b[i] = pos + 1;
20
21
22
23
        while (sp < cad.size()) {</pre>
24
25
26
            while (kp != -1 && (kp == patron.size() || patron[kp] != cad[sp]))
27
                kp = b[kp];
28
29
            kp++;
30
            sp++;
31
            if (kp == patron.size())
32
33
                a.emplace_back(sp - patron.size());
34
35
36
        return a;
37 }
38
39
   int main() {
40
        string pat;
41
        string text;
42
        bool flag;
43
44
45
        while (true) {
46
            if (!getline(cin, pat))
47
                break;
48
49
            if (!getline(cin, text))
50
                break;
            auto positions = match(text, pat);
51
52
53
            if (!positions.empty()) {
54
                flag = true;
      Help
55
                for (const auto &i : positions) {
                    if (flag) {
56
57
                        flag = false;
```

vector<int> b(patron.size() + 1, -1);

14 15