Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
8166888	05:08:40	String Matching	✔ **Accepted**	0.03 s	C++
	✔✔				

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FILENAME	FILESIZE	SHA-1 SUM	
stringmatching.cpp	1315 bytes	6941f32741ad33e6d06df67abedd7d2021249aab	download

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stringmatching.cpp

```cpp
1  #include <bits/stdc++.h>
2  using namespace std;
3
4  vector<int> kmp_pre(string substring)
5  {
6      vector<int> table(substring.size() + 1, -1);
7      for(int i = 1; i <= substring.size(); i++)
8      {
9          int pos = table[i - 1];
10
11         while(pos != -1 && substring[pos] != substring[i - 1]){
12             pos = table[pos];
13         }
14         table[i] = pos + 1;
15     }
16     return table;
17 }
18
19 void kmp_search(string substring,string fullstring,vector<int> table)
20 {
21     int fullIndex = 0;
22     int subIndex = 0;
23
24     int fSize = (int)fullstring.size();
25     int sSize = (int)substring.size();
26
27     while(fullIndex < fSize)
28     {
29         while(subIndex != -1 && (subIndex == sSize || substring[subIndex] != fullstring[fullIndex]))
30             subIndex = table[subIndex];
31
32         subIndex++;
33         fullIndex++;
34
35         if(subIndex == sSize){
36             cout << fullIndex - sSize << " ";
37
38
39     cout << "\n";
40 }
```

? Help

```
41
42
43  int main(int argc, const char * argv[]) {
44      ios_base::sync_with_stdio(false);
45      char buffer[1048576];
46      cin.rdbuf()->pubsetbuf(buffer, sizeof(buffer));
47
48      int x,y,z;
49      string sub, full;
50      while (getline(cin,sub)) {
51          getline(cin, full);
52          kmp_search(sub, full, kmp_pre(sub));
53      }
54
55  }
```