```
1 #include "../bits/stdc++.h"
2 // 文字列S の各i に対し, S と S[i:|S|-1] の最長共通接頭辞を求める
3 // https://snuke.hatenablog.com/entry/2014/12/03/214243
  4 // verified: https://atcoder.jp/contests/arc055/submissions/2711907
 7 * -> z[i]= "*21034210"
 9 std::vector<int> z_algorithm(const std::string &s)
10 {
          int sz = s.length();
11
          std::vector<int> z(sz, 0);
int i = 1, j = 0;
while (i < sz)</pre>
12
13
14
15
          {
16
              while (i + j < sz \&\& s[j] == s[i + j])
              j++;
z[i] = j;
if (j == 0)
17
18
19
20
                   i++;
continue;
21
22
23
               int k = 1;
24
25
              while (i + k < sz & k + z[k] < j)
26
               {
27
                    z[i + k] = z[k];
28
              }
i += k;
29
30
31
              j -= k;
32
33
34 }
          return z;
35
```

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