/home/gandrade/gogo/icpc/CF/notebook-icpc/strings/z_algorithm.cpp
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```
const int MAXN = 1000000;
1
2
3
    int z[MAXN];
4
5
6
7
    char s[MAXN+1];
    int n;
    void run z() {
        8
 9
10
11
12
                z[i] = R-L; R--;
13
14
            } else {
15
                int k = i-L;
16
                if (z[k] < R-i+1) z[i] = z[k];
17
                else {
18
                    L = i;
19
                    while (R < n \&\& s[R-L] == s[R]) R++;
20
                    z[i] = R-L; R--;
21
                }
22
            }
23
24
25
        }
    }
```