The event of zero and one ACM Template



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1 String

1.1 Manacher

```
#include<bits/stdc++.h>
302f
      using namespace std;
421c
      const int MAX = 2e5+10000;
571f
      char s[MAX];
99d0
      struct Manacher{
81d4
          int lc[MAX];
9ccd
          char ch[MAX];
04f3
d7af
          int N;
          Manacher(char *s) {init(s); manacher();}
053c
44ca
          /* s 1 bas */
          void init(char *s) {
e798
0de8
              int n = strlen(s+1);
              ch[n*2 +1] = '#';
ad19
              ch[0] = '@';
ce0d
              ch[n*2 +2] = ' \0';
46cd
0c3f
              for (int i=n; i>=1; i---) {
                  ch[i*2] = s[i]; ch[i*2 -1] = '#';
6beb
95cf
              }
              N = 2* n +1;
5991
95cf
6c5f
          void manacher() {
```

```
lc[1]=1; int k=1;
                                                                                       a461
        for (int i=2;i<=N;i++) {</pre>
                                                                                       256b
            int p = k+lc[k]-1;
                                                                                       7957
            if (i<=p) {
                                                                                       5e04
                lc[i]=min(lc[2*k-i],p-i+1);
                                                                                       24a1
             }else{ lc[i]=1; }
                                                                                       87d6
            while (ch[i+lc[i]]==ch[i-lc[i]])lc[i]++;
                                                                                       aa80
            if (i+lc[i]>k+lc[k])k=i;
                                                                                       2b9a
                                                                                       95cf
                                                                                       95cf
   void debug() {
                                                                                       56dd
        puts (ch);
                                                                                       b492
        for (int i=1;i<=N;i++) {</pre>
                                                                                       cd0f
            printf("lc[%d]=%d\n",i,lc[i]);
                                                                                       0d62
                                                                                       95cf
                                                                                       95cf
                                                                                       329ъ
int main() {
                                                                                       3117
    scanf("%s",s+1);
                                                                                       a275
   Manacher manacher(s);
                                                                                       382e
   manacher.debug();
                                                                                       9c07
   return 0;
                                                                                       7021
                                                                                       95cf
```