

## Manacher算法

```
#include <bits/stdc++.h>
#define MAXN 1000005
using namespace std;
char s[MAXN], ss[MAXN];
int pos, maxr, p[MAXN];
int main(){
    scanf("%s", s+1);
    int n=strlen(s+1);
    for (int i=1;i<=n;i++) ss[i<<1]=s[i], ss[(i<<1)|1]='#';
    n=(n<<1)|1, ss[0]='@', ss[1]='#';
    strcpy(s,ss);
    for (int i=1;i<=n;i++){
        if (i<maxr) p[i]=min(p[(pos<<1)-i], maxr-i);
        while (s[i-p[i]-1]==s[i+p[i]+1]) ++p[i];
        if (i+p[i]>maxr) maxr=i+p[i], pos=i;
    }
    return 0;
}
```