

```

1 //[環狀序列/Circular Sequenc](1/2)
2 #define IN "P07IN.txt"
3 #define OUT "P07OUT.txt"
4 //*****
5 #include <iostream>
6 #include <ctime>
7 using namespace std;
8 void redir(void);
9 //*****
10 /* Work Space*/
11 bool less(char *s, int p, int q);
12 //*****
13 int main(void)
14 {
15     redir(); //redirection
16 //*****
17 /* Work Space*/
18     int T;
19     char s[101]; //依題意
20
21     int ans;
22     int n;
23     int i;
24
25     scanf("%d", &T);
26
27     while(T--){
28         scanf("%s", s);
29         ans = 0;
30         n = strlen(s);
31
32         for(i=1; i<n; i++){
33             if(less(s, i, ans)){
34                 ans = i;
35             }
36         }
37
38         for(i=0; i<n; i++){
39             putchar(s[(ans+i) % n]);
40         }
41         putchar('\n');
42     }
43 //*****
44     freopen("CON", "r", stdin); //取消重新導向
45     freopen("CON", "w", stdout);
46
47     printf("Time used = %.2f\n", (double)clock()/CLK_TCK); //傳回程式目前為止執行的時間
48
49     system("pause");
50     return 0; //the end...
51 }
52
53 void redir(void)
54 {
55     freopen(IN, "r", stdin);
56     freopen(OUT, "w", stdout);
57 }
58 //*****
59
60
61
62
63

```

```

64 //[環狀序列/Circular Sequenc](2/2)
65 /* Work Space*/
66 //環狀字串s的標記法p是否比標示法q的字典序小
67 bool less(char *s, int p, int q)
68 {
69     int n;
70     int i;
71
72     n = strlen(s);
73
74     for(i=0; i<n; i++){
75         if(s[(p+i) % n] != s[(q+i) % n]){
76             return s[(p+i) % n] < s[(q+i) % n];
77         }
78     }
79     return false;
80 }
81
82 //Input(IN) Sample
83 /*
84 2
85 CTCC
86 CGAGTCAGCT
87 */
88
89 //Output(OUT)
90 /*
91 CCTT
92 AGCTCGAGTC
93 */

```