

# 第十次作业

## 第一题

```
1  #include <stdio.h>
2  #include <string.h>
3  #pragma warning(disable:4996)
4  int main()
5  {
6      //第一题
7      char sa[31], sb[31];
8      int pos[31];
9      int time = 0;
10     memset(pos, -1, sizeof(pos));
11     printf("input sA:");
12     scanf("%s", sa);
13     printf("input sB:");
14     scanf("%s", sb);
15     for (int i = 0; i < strlen(sa); i++) {
16         if (sa[i] == sb[0]) {
17             for (int j = 0; j < strlen(sb); j++) {
18                 if (sb[j] == '?') continue;
19                 else if (sa[j + i] != sb[j]) goto s;
20             }
21             pos[time] = i;
22             time++;
23             s:
24             continue;
25         }
26     }
27     printf("output: ");
28     for (int i = 0; i < 31; i++) {
29         if (pos[i] != -1) printf("%d ", pos[i]);
30     }
```

```
31     if (pos[0] == -1)printf("No matches found");
32     return 0;
33 }
34
35
```

```
input sA:abcdefghc*exyzcferpk
input sB:c?e
output: 2 8 14
```

## 第二题

```
1  #include <stdio.h>
2  #include <string.h>
3  #pragma warning(disable:4996)
4  int main()
5  {
6      char s[30], v[30], v_i[30];
7      int pos[30];
8      memset(pos, -1, sizeof(pos));
9      printf("input: ");
10     scanf("%s", s);
11     int j = 0;
12     for (int i = 0; i < strlen(s); i++) {
13         if (s[i] == 'a' || s[i] == 'e' || s[i] == 'i' || s[i] ==
'o' || s[i] == 'u') {
14             pos[j] = i;
15             v[j] = s[i];
16             j++;
17         }
18     }
19     for (int i = 0; i < j; i++) {
20         v_i[j - i - 1] = v[i];
21     }
```

```
22     for (int i = 0; i < j; i++) {
23         s[pos[i]] = v_i[i];
24     }
25     printf("output: %s", s);
26     return 0;
27 }
28
29
```

```
input: hello
output: holle
```

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## 第三题

```
1  #include <stdio.h>
2  #include <string.h>
3  #pragma warning(disable:4996)
4  int main()
5  {
6      char s[30];
7      printf("input: ");
8      scanf("%s", s);
9      for (int j = 0; j < strlen(s); j++) {
10         for (int i=0; i < strlen(s)-1; i++) {
11             if (s[i] < s[i + 1]) {
12                 char temp = s[i];
13                 s[i] = s[i + 1];
14                 s[i + 1] = temp;
15             }
16         }
17     }
18     printf("output: %s", s);
19     return 0;
20 }
21
22
```

```
input: aggregate  
output: trgggeaa
```