```
#include<stdio.h>
           1
1.
           2
                #include<string.h>
           3
                int main(){
           4
                    int n;
           5
                    char str1[100],str2[100];
                    printf("Enter a string:");
           6
           7
                    scanf("%s",str1);
                    printf("Enter the number of left rotations:");
           8
           9
                    scanf("%d",&n);
          10
                    for(int i=0;i<strlen(str1);i++){</pre>
                         int j=i+n;
          11
                        if(j>=strlen(str1))
          12
                             j-=strlen(str1);
          13
          14
                         str2[i]=str1[j];
          15
                    printf("The string after rotating:%s",str2);
          16
          17
                    return 0;
          18
```

 sunkai@sunkaideMacBook-Pro T % cd "/v tempCodeRunnerFile && "/var/folders/ Enter a string:ABCDEFG Enter the number of left rotations:3 The string after rotating:DEFGABC

```
#include<stdio.h>
2.
        1
        2
            #include<string.h>
             int main(){
        3
                 int a.b;
        4
                 /*初始化数组我就不截全了*/
        5
                 /*个位*/char str1[10][100]={"","one","two","three","four
        6
                 /*十位*/char str2[10][100]={"","","twenty","thirty","for
        7
                 /*十几*/char str3[10][100]={"ten","eleven","twelve","thi
        8
                 /*最终输出*/char final[100]={"You entered the number "};
        9
                 printf("Enter a two-digit number:");
       10
                 scanf("%1d%1d",&a,&b);
       11
                 if(a==1){
       12
                     strcat(final,str3[b]);
       13
       14
                 }
       15
                 else{
       16
                     strcat(final,str2[a]);
                     strcat(final,"-");
       17
                     strcat(final,str1[b]);
       18
       19
                 printf("%s",final);
       20
                 return 0;
       21
       22
```

 sunkai@sunkaideMacBook-Pro T % cd ", tempCodeRunnerFile && "/var/folder:

You entered the number forty—five ○ sunkai@sunkaideMacBook—Pro T % |

Enter a two-digit number:45

```
#include<stdio.h>
 1
 2
     #include<string.h>
 3
      int main(){
          char a[100];
 4
 5
          int cnt=0:
          printf("Enter a string:");
 6
 7
          scanf("%s",a);
8
          for(int i=0;i<strlen(a)/2;i++)</pre>
              if(a[i]!=a[strlen(a)-1-i])
9
10
                  cnt++;
11
          if(cnt==0)
12
              printf("This is a palindrome string");
          else
13
              printf("This is not a palindrome string");
14
15
          return 0;
16
```

- sunkai@sunkaideMacBook-Pro T % cd rss80000gn/T/"tempCodeRunnerFile Enter a string:abcdcba This is a palindrome string
- sunkai@sunkaideMacBook-Pro T % cd rss80000gn/T/"tempCodeRunnerFile Enter a string:ahsdkhjk This is not a palindrome string

4. (优化需要的存储空间,没有包含多个字符串包含相同最多个数特定字母的情况)

Specific counts:3%

```
1
         #include<stdio.h>
     2
         #include<string.h>
     3
         #include<ctype.h>
     4
         int main(){
     5
             char a[100]/*缓存区*/,maxs[100],p;
     6
             int n, max=0/*最大次数*/;
     7
             printf("Enter the number of strings:");
     8
             scanf("%d",&n);
             printf("Enter the specific character:");
     9
             getchar(); //读掉换行符
    10
             p=getchar();
    11
             getchar();
    12
             for(int i=0;i<n;i++){</pre>
    13
    14
                 int cnt=0;
    15
                 printf("Enter the string %d:",i+1);
    16
                 gets(a);
    17
                 for(int j=0;j<strlen(a);j++)//数特定字母个数
    18
                     if(tolower(a[j])==p)
    19
                        cnt++;
                 if(cnt>max){//存储最多重复次数字符串
    20
    21
                     strcpy(maxs,a);
    22
                     max=cnt;
    23
    24
    25
             if(max==0)
    26
                 printf("No specific character");
    27
             else{
                 printf("The string with the most specific character is:%s\n",maxs);
    28
                 printf("Specific counts:%d",max);
    29
    30
    31
             return 0;
    32
■ SUNKAL@SUNKALGEMACBOOK-PTO I % CQ "/VAT/TOLGETS/DM/ZQZZYDWQDTVD
   tempCodeRunnerFile && "/var/folders/bm/zgg2yp0d5rv5tkc4bm2prss
  Enter the number of strings:3
  Enter the specific character:a
  warning: this program uses gets(), which is unsafe.
  Enter the string 1:I have a pen
  Enter the string 2:I have an apple
  Enter the string 3:Pen-Pineapple-Apple-pen
  The string with the most specific character is: I have an apple
```