

1.

```
1  #include<stdio.h>
2  #include<string.h>
3  #include<ctype.h>
4  int count_specific_char(char c[],int l,char a);
5  int main(){
6      char a[100]/*缓存区*/,maxs[100],p;
7      int n,max=0/*最大次数*/;
8      printf("Enter the number of strings:");
9      scanf("%d",&n);
10     printf("Enter the specific character:");
11     getchar(); //读掉换行符
12     p=getchar();
13     getchar();
14     for(int i=0;i<n;i++){
15         printf("Enter the string %d:",i+1);
16         gets(a);
17         if(count_specific_char(a,strlen(a),p)>max){ //存储最多重复次数字符串
18             strcpy(maxs,a);
19             max=count_specific_char(a,strlen(a),p);
20         }
21     }
22     if(max==0)
23         printf("No specific character");
24     else{
25         printf("The string with the most specific character is:%s\n",maxs);
26         printf("Specific counts:%d",max);
27     }
28     return 0;
29 }
30 int count_specific_char(char c[],int l,char a){
31     int cnt=0;
32     for(int j=0;j<l;j++){ //数特定字母个数
33         if(tolower(c[j])==a)
34             cnt++;
35     }
36     return cnt;
37 }
```

- sunkai@sunkaideMacBook-Pro T % cd "/var/folders/bm/zgg2yp0d5rv5t tempCodeRunnerFile && "/var/folders/bm/zgg2yp0d5rv5tkc4bm2prss8
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
Specific counts:3%

2.

```
1  #include<stdio.h>
2  void to_base_n(int p,int n){
3      int a[100],cnt=0;
4      while(p!=0){
5          a[cnt]=p%n;
6          p/=n;
7          cnt++;
8      }
9      for(int i=cnt-1;i>=0;i--)
10         printf("%d",a[i]);
11 }
12 int main(){
13     int a,b;
14     scanf("%d,%d",&a,&b);
15     to_base_n(a,b);
16 }
17
```

```
► sunkai@sunkaideMacBook-
  tempCodeRunnerFile &&
  129,8
  201%
```

3.4

```

1  #include<stdio.h>
2  double ans=1;
3  void fastpow(double m,int n);//m^n
4  int main(){
5      double a=0;
6      int b=0;
7      printf("请输入底数和指数 (m,n):");
8      scanf("%lf,%d",&a,&b);
9      if(b<0){
10         a=1/a;
11         b=-b;
12     }
13     fastpow(a,b);
14     printf("%lf",ans);
15 }
16 void fastpow(double m,int n){//快速幂
17     if((n & 1)!=0)
18         ans*=m;
19     m*=m;
20     n>>=1;
21     if(n!=0)
22         fastpow(m,n);
23 }
24

```

```

yp0d5rv5tkc4bm2prss80000gn/T/"t
请输入底数和指数 (m,n) :2,14
16384.000000%
sunkai@sunkaideMacBook-Pro T %
n/T/" && gcc tempCodeRunnerFile
yp0d5rv5tkc4bm2prss80000gn/T/"t
请输入底数和指数 (m,n) :10,-5
0.000010%
sunkai@sunkaideMacBook-Pro T %
n/T/" && gcc tempCodeRunnerFile
yp0d5rv5tkc4bm2prss80000gn/T/"t
请输入底数和指数 (m,n) :41,0
1.000000%
. . . . .

```