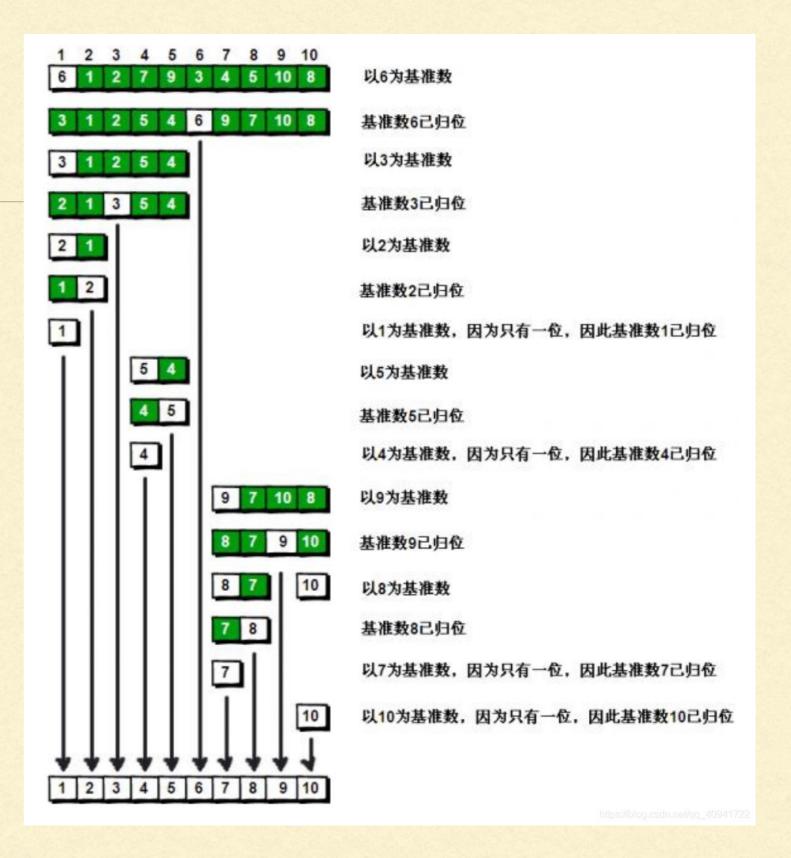
LAB7讲解

2022.11.7

快速排序

ops_request_misc=%257B%2522request %255Fid%2522%253A%2522166779187 416800186519909%2522%252C%2522s cm%2522%253A%252220140713.13010 2334..%2522%257D&request_id=16677 9187416800186519909&biz_id=0&utm_medium=distribute.pc_search_result.no ne-task-blog-2~all~top_positive~default-1-9439 6010-null-null.142^v63^control,201^v3^control_2, 213^v1^t3_esquery_v2&utm_term=快速排序&spm=1018.2226.3001.4187

https://blog.csdn.net/qq 40941722/



冒泡排序,选择排序,插入排序,快速排序,希尔排序

https://blog.csdn.net/m0_37741420/article/details/106981276?
ops_request_misc=%257B%2522request%255Fid%2522%253A%2522
166779272016782425191269%2522%252C%2522scm%2522%253A%
252220140713.130102334..%2522%257D&request_id=16677927201
6782425191269&biz_id=0&utm_medium=distribute.pc_search_resul
 t.none-task-blog-2~all~top_positive~default-1-106981276-nullnull.142^v63^control,201^v3^control_2,213^v1^t3_esquery_v2&utm
 _term=选择排序&spm=1018.2226.3001.4187

归并排序

https://blog.csdn.net/DUXSII/article/details/I258I8272?
ops_request_misc=%257B%2522request%255Fid%2522%253A%2522
I6677928I3I67824I259I099%2522%252C%2522scm%2522%253A%
252220I407I3.I30I02334..%2522%257D&request_id=I6677928I3I
67824I259I099&biz_id=0&utm_medium=distribute.pc_search_resul
 t.none-task-blog-2~all~top_positive~default-I-I258I8272-null-null.I42^v63^control,20I^v3^control_2,2I3^vI^t3_esquery_v2&utm
 _term=归并排序&spm=I0I8.2226.300I.4I87

归并排序(Merge Sort)是建立在归并操作上的一种既有效 又稳定的排序算法,该算法是采用分治法(Divide and Conquer)的一个非常典型的应用。将已有序的子序列合 并,得到完全有序的序列。即先使每个子序列有序,再 使子序列段间有序。若将两个有序表合并成一个有序 表,称为二路归并。

A HAUNTED STORY

```
#include <iostream>
  using namespace std;
  int main()
   {
       int n; //输入的字符串数目
       string s; //输入的字符串
       cin>>n;
       for(int i = 0; i<n;i++)</pre>
            cin>>s;
10
            int <u>l</u> = <u>s.length()</u>; //输入的字符串长度 <u>A</u> Implicit conversion loses integer precision: 'std::basic_string<char>::size_type'...
11
            cout<<"String #"<<i+1<<endl;</pre>
12
            for(int j = 0; j<1;j++)</pre>
13
14
                if(s[j]=='Z')
                                //输入的字符串中'Z'用A替换
15
                    cout<<'A';
16
                else
17
                    cout << (char)(s[j] + 1); //输入字符串中的每个字母都按照字母表顺序用下一个字母替换
18
19
            cout<<endl<<endl;
20
21
       return 0;
23 }
```

A FUN GAME

```
#include<iostream>
#include <algorithm>
using namespace std;
int main()
    char words[101][10], str[10], str1[10];
    int i,j,length1,length2,s=0;
    while(1) //输入字典
       scanf("%s", words[s]);
       if(strcmp(words[s++], "XXXXXX")==0) break;
    for(i=0; i<s-2; i++) //按字典序对字典选择排序
       for(j = i+1; j < s-1; j++)
           if(strcmp(words[i],words[j])>0)
               strcpy(str,words[i]);
               strcpy(words[i],words[j]);
               strcpy(words[j],str);
           }
       int flag = 1;
```

```
while(scanf("%s", str)!=EOF && strcmp(str, "XXXXXX")!=0) //输入待处理的单词
       length1 = strlen(str);
                                            ▲ Implicit conversion loses integer precisi
       sort(str, str+ length1); //待处理的单词升序排序
       for(i = 0 ;i<s-1;i++)</pre>
           length2 = strlen(words[i]);
A Implicit conversion loses integer precisi
           strcpy(str1, words[i]);
           sort(str1,str1+length2); //字典单词按字符升序排序
           if(strcmp(str1 , str)==0) //输出在字典里存在的单词,设置标志
               printf("%s\n", words[i]);
               flag = 0;
       }
       if(flag)
           printf("NOT A VALID WORD\n"); //字典里不存在相应的单词
       printf("*****\n");
   }
   return 0;
}
```

SOMETHINGTECHNICAL

```
#include<iostream>
using namespace std;
int n;
char pas[20][200];
char wd1[20],wd2[20];
int main(){
    cin>>n; cin.get();
    for(int i=0;i<n;i++)</pre>
        cin.getline(pas[i],200);
    cin>>wd1>>wd2;
    int cnt=0,wdcnt;
    cout<<wd1<<" ";
    for(int i=0;i<n;i++){</pre>
        wdcnt=1;
        for(int j=0;j<strlen(pas[i]);j++){</pre>
            //cout<<pas[i][j]<<" "<<cnt<<" "<<wd1[cnt]<<" "<<wdcnt<<endl;
            if(pas[i][j]==' ')
                wdcnt++,cnt=0;
                                                                             Possible misuse of comma operator here
            if(pas[i][j]==wd1[cnt])
                if(cnt==strlen(wd1)-1&&(pas[i][j+1]==' '||j==strlen(pas[i])-1)) cout<<(i+1)<<"-"<<wdcnt<<" ";
                else cnt++;
            }
            else
                cnt=0;
        }
```

```
cout<<end1;
cout<<wd2<<" ";
cnt=0;
for(int i=0;i<n;i++)
{
    wdcnt=1;
    for(int j=0;j<strlen(pas[i]);j++)
    { if(pas[i][j]==' ')
        wdcnt++,cnt=0;
        if(pas[i][j]==wd2[cnt])
        { if(cnt==strlen(wd2)-1&&(pas[i][j+1]==' '||j==strlen(pas[i])-1))
            cout<<(i+1)<<"-"<<wdcnt<<" "; else cnt++;
    }
    else cnt=0;
}
} cout<<end1;
return 0;
}</pre>
```

"感谢垂听。"