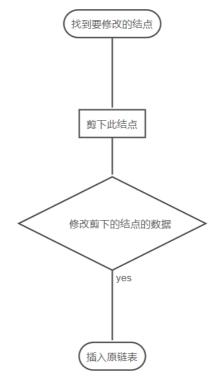
修改成绩并重新排序流程图



```
#include "stdio.h"
#include "stdlib.h"
#include "string.h"
struct Student
  unsigned long ID;
char Name[21];
float Score;
};
struct Node
   struct Student data;
   struct Node * next;
};
int Count=0;
struct Node * H=NULL;
struct Node * Insert(struct Node * Head, struct Node * pNode)
{
   struct Node * p=Head,*q=Head;
    if (p==NULL)
       Head=pNode;
    }
    else
    {
       while(p)
           if (pNode→data.Score < p→data.Score)
           {
             q=p;
              p=p→next;
```

```
else
            {
                if (p==Head)
                {
                    Head=pNode;
                    pNode→next=p;
                }
                else
                {
                    q\rightarrow next=pNode;
                    pNode→next=p;
                }
                break;
        }
        if (p==NULL)
        {
            q\rightarrow next=pNode;
        }
    }
    return Head;
}
void Display(struct Node * Head)
{
    if (Head==NULL)
        printf("当前没有学生成绩信息! \n");
    struct Node * p=Head;
    for (int i=0;i<Count;i++)</pre>
       printf("学号: %lu\t姓名: %s\t成绩: %.1f\n",p→data.ID,p→data.Name,p→data.Score);
        p=p\rightarrow next;
    }
}
void Add()
   unsigned long ID;
    char Name[21];
    float Score;
    struct Node * Head=NULL;
    printf("请输入学号: ");
    scanf("%lu",&ID);
    while (ID)
        printf("请输入姓名: ");
        scanf("%s",Name);
        printf("请输入成绩: ");
        scanf("%f",&Score);
        struct Node * pNew=(struct Node *) malloc(sizeof (struct Node));
        pNew→data.ID=ID;
        strcpy(pNew→data.Name,Name);
        pNew→data.Score=Score;
        pNew→next=NULL;
        Count++;
        Head=Insert(Head,pNew);
        printf("请输入学号: ");
        scanf("%lu",&ID);
    }
```

```
H=Head;
}
void Search(struct Node * Head)
   char Name[21];
   int i=0;
   struct Node * p=Head;
   if (p==NULL)
       printf("当前没有学生成绩信息! \n");
       return;
   }
   printf("请输入姓名: ");
    scanf("%s",Name);
    while(p)
        for(i=0;Name[i]\neq 0;i++)
           if(Name[i] \neq p \rightarrow data.Name[i])
          break;
       }
       if(Name[i])
       p=p→next;
       else
           printf("%.2f\n",p→data.Score);
           return ;
       }
    }
    if (p==NULL)
    {
       printf("无当前学生信息\n");
       return;
   }
}
void Change(struct Node * Head)
{
   unsigned long ID;
   struct Node *m=Head,*n=Head,*d=Head;
   float Score;
   printf("请输入学号: ");
   scanf("%lu",&ID);
    printf("请输入成绩: ");
    scanf("%f",&Score);
    while(m)
       if(ID==m→data.ID)
           if(m==Head)
               m→data.Score=Score;
               Head=m→next;
           }
           else if(m\rightarrownext==NULL)
               n→next=NULL;
               m→data.Score=Score;
           }
           else
               d=m→next;
               m→data.Score=Score;
               n \rightarrow next=d;
           }
```

```
Head=Insert(Head,m);
         H=Head;
        return;
     }
      else
      {
        n=m;
         m=m→next;
     }
   }
   if(m==NULL)
   printf("无当前学生信息\n");
   return;
int main()
{
                                           _____\n");
  printf(" =====
              学生管理系统
                                         >\n");
  printf("<
                                       \n");
  printf(" =====
                     (请选择功能) \n (1) 成绩录入 (2) 显示全部 (3) 成绩查询 (4) 成绩修改 (0)退出\n");
  printf("
  int a=0;
   scanf("%d",&a);
   while (a)
   {
      switch(a)
         case 1:
           Add();
           break;
         case 2:
           Display(H);
           break;
         case 3:
           Search(H);
           break;
         case 4:
           Change(H);
            break;
     }
   printf("
                          (请选择功能) \n (1) 成绩录入 (2) 显示全部 (3) 成绩查询 (4) 成绩修改 (0)退出\n");
   scanf("%d",&a);
   }
   printf(" ===
                                               \n");
  return 0;
}
```