```
main.cpp
```

```
#include "df.h"
int main()
                     isDoErrorText(PutElem(L, index, stu));
```

```
isDoErrorText(NOTFOUND);
break;
case 4:
    cout<<"Input number to find the student."<<endl;
    cin>>stu.StudentNumber;
    index = LocateElem(L, stu, EQUAL);
    ElemType tempe;
    if (index)
        PrintElem((GetElem(L, index, tempe), tempe));
    else
        isDoErrorText(NOTFOUND);
    break;
case 5:
    isDoErrorText(ListTraverse(L, VISIT));
    break;
case 6:
    cout<<ListLength(L)<<endl;
    break;
}
return 0;
}</pre>
```

## df.h

```
#include "iostream"
#include <cstdio>
#include <cstring>
#include <cstdlib>
using namespace std;
#define 11 long long
#define scanf scanf_s
#define MAXSIZE 20
#define TRUE 1
#define FALSE 0
#define OK 1
#define ERROR O
#define INFEASIBLE (-1)
#define OVER (-2)
#define NOTFOUND 2
#define FINDALL 0
#define FINDNUM 1
#define EQUAL 1
#define WRONGMODEL 3
#define VISIT 0
```

```
typedef struct {
}ElemType;
Node, *SqList;
bool CharCompare(char a[], char b[]);
Status <mark>InitList(SqList &L);</mark>
Status DestoryList(SqList &L);
Status ClearList(SqList &L);
bool ListEmpty(SqList L);
Status GetElem(SqList L, 11 i, ElemType &e);
Status PutElem(SqList &L, 11 i, ElemType &e);
bool compare(ElemType a, ElemType b);
Status ListInsert(SqList &L, ll i, ElemType e);
Status ListDelete(SqList &L, ll i, ElemType &e);
Status ListTraverse(SqList L,Status t);
void PrintElem(ElemType e);
void CreateElem(ElemType &e);
11 FindNumber(SqList L, ElemType e);
void BeginText();
void isDoErrorText(Status t);
```

## ADT. cpp

```
#include"df.h"

using namespace std;

bool CharCompare(char a[], char b[])
{
    11 len_a = strlen(a);
    11 len_b = strlen(b);
    if (len_a != len_b)
        return false;
    for (11 i = 0;i<len_b;i++)
        if (a[i] != b[i])</pre>
```

```
Status InitList(SqList &L)
Status DestoryList(SqList &L)
Status ClearList(SqList &L)
bool ListEmpty(SqList L)
   11 len=0;
Status GetElem(SqList L, 11 i, ElemType &e)
```

```
bool compare (ElemType a, ElemType b)
           CharCompare (a. StudentName, b. StudentName);
Status ListInsert(SqList &L, ll i, ElemType e)
   SqList s = new Node;
   if (i != ListLength(L))
Status ListDelete(SqList &L, 11 i, ElemType &e)
```

```
Status ListTraverse(SqList L, Status t)
            SqList temp = L;
Status PutElem(SqList &L, 11 i, ElemType &e)
void CreateElem(ElemType &e)
```

```
1 FindNumber(SqList L, ElemType e)
   SqList temp = L;
void isDoErrorText(Status t)
```

```
break;
case NOTFOUND:
    cout<<"\"<\UNSUCCESS\Student can't be found."\"<\endl;
    break;
case WRONGMODEL:
    cout<\"\"\UNSUCCESS\A wrong model is given."\"\\end{endl;
    break;
}</pre>
```