#include "pch.h"

#include <iostream>

using namespace std;

class Seqlist

{

protected:

int length; // 顺序表当前长度

int maxLength; // 最大容量

int size;

int n[5] = { 1,3,7,9 };

public:

Seqlist()

{

length = 4;

maxLength = 5;

}

void intser()

{

int a;

cin >> a;

if (length == maxLength)

{

cout << "数组已满，无法添加" << endl;

}

else

{

for (int i = 0; i <= length; i++)

{

if (a > n[i])

{

size = i;

}

else if ( a <= n[i])

{

size = i;

break;

}

else

{

size = maxLength - 1;

}

}

for (int j = length; j >= size; j-- )

{

n[j] = n[j-1];

}

n[size] = a;

length++;

cout << "插入成功" << endl;

}

}

void show()

{

for (int i = 0; i <= length - 1; i++)

{

cout << n[i] << endl;

}

}

void Delete()

{

if (length == 0)

{

cout << "数组为空" << endl;

}

else

{

int b;

cin >> b;

for (int i = 0; i <= length; i++)

{

if ( b > n[i])

{

size = i;

}

else if (b <= n[i])

{

size = i;

break;

}

else

{

size = maxLength - 1;

}

}

for (int j = size; j < length; j++)

{

n[j] = n[j + 1];

}

length--;

cout << "删除成功" << endl;

}

}

};

int main()

{

Seqlist s;

s.intser();

s.show();

s.Delete();

s.show();

}