```
//11 题答案
//时间复杂度最好为 0(1), 最差为 0(listSize)
template<class T>
void arrayList<T>::push_back(const T&x)
   if(listSize==arrayLength)
       changeLength(element,listSize,listSize*2);
       arrayLength*=2;
    element[listSize++]=x;
//12 题答案
//时间复杂度为 0(1)
template<class T>
void arrayList<T>::pop_back()
   if(listSize<=0)
       cout<<"already empty"<<endl;</pre>
       return;
   else
    element[--listSize].~T();
//14 题答案
//时间复杂度为 0(1)
template<class T>
void arrayList<T>::reserve(int theCapacity)
   if(theCapacity<=0)</pre>
       cout<<"theCapacity should be >0";
       return;
   arrayLength=max(arrayLength,theCapacity);
//16 题答案
//时间复杂度为0(1)
```

```
template<class T>
void arrayList<T>::clear()
    listSize=0;
    arrayLength=0;
    delete []element;
    element=NULL;
测试
#include"array_list.hpp"
int main()
{
    arrayList<int>s(1);
    s.push_back(33);
    cout<<s<<endl;</pre>
    s.push_back(2);
    cout<<s<<endl;</pre>
    cout<<"capacity:"<<s.capacity()<<endl;</pre>
    s.push_back(3);
    cout<<s<<endl;</pre>
    cout<<"capacity:"<<s.capacity()<<endl;</pre>
    s.pop_back();
    cout<<s<<endl;</pre>
    s.reserve(20);
    cout<<"capacity:"<<s.capacity()<<endl;</pre>
    s.clear();
    cout<<"capacity:"<<s.capacity()<<endl;</pre>
输出
33
33 2
capacity:2
33 2 3
capacity:4
33 2
capacity:20
```

capacity:0