作业3参考答案(by 薛正康)

P105-11

```
template<class T>
void arrayList<T>::push back(const T& theElement) {
    if (listSize == arrayLength) {
         change Length 1D (element, array Length, 2 * array Length);\\
         arrayLength *= 2;
    element[listSize] = theElement;
    listSize++;
//内存够时复杂度为 O(1), 否则复杂度为 O(n),
P105-12
template<class T>
void arrayList<T>::pop back() {
    if(listSize == 0) {
         cout << "There is no element!\n";</pre>
         return;
    listSize--;
//复杂度 O(1)
P105-14
template<class T>
void arrayList<T>::reserve(cosnt int& theCapacity) {
    if (theCapacity > arrayLength) {
         changeLength1D(element, arrayLength, theCapacity);
                                                              //需要写出具体实现
         arrayLength = theCapacity;
}
P105-16
template<class T>
void arrayList<T>::clear() {
    listSize = 0;
//复杂度 O(1)
```