```
Test operator >> and <<
156459615
156459615
```

```cpp
MyString v;
cout << "Test operator >> and << \n";
cin >> v;
cout << v << "\n\n";
```

```
Test  constructor:MyArray<char>arr1

arr1_size=0
arr1_capacity10

Test  constructor:MyArray<char>arr2(str)
Hellow
arr2_size=6
arr2_capacity10

to day is a nice day
arr3_size=20
arr3_capacity20
```

```cpp
MyString arr1, arr2("Hellow"), arr3("to day is a nice day"), arr4("to day is a nice day", 5, 8), arr5("to day is a ni
cout << "Test  constructor:MyArray<char>arr1\n";
cout << arr1;
cout << "arr1_size=" << arr1.getSize() << "\narr1_capacity" << arr1.getCapacity() << "\n\n";
cout << "Test  constructor:MyArray<char>arr2(str)\n";
cout << arr2;
cout << "arr2_size=" << arr2.getSize() << "\narr2_capacity" << arr2.getCapacity() << "\n\n";
cout << arr3;
cout << "arr3_size=" << arr3.getSize() << "\narr3_capacity" << arr3.getCapacity() << "\n\n";
```

```
AAAAA

BBB

CCCCCCCCCC

Test append
arr6 : AAAAA

arr7 : BBB

arr6.append(arr7) : AAAAABBB
```

```cpp
MyString arr6, arr7, arr8, arr9;
arr6.resize(5, 'A');
arr7.resize(3, 'B');
arr8.resize(10, 'C');
cout << arr6 << endl;
cout << arr7 << endl;
cout << arr8 << endl;

cout << "Test append \n" << "arr6 : " << arr6 << "\narr7 : " << arr7 << "\n" << "arr6.append(arr7) : ";
arr6.append(arr7);
cout << arr6 <<"\n\n";
```

```
Test substr
arr9 :

arr6 : AAAAABBB

arr9=arr6.substr(3,3) : AAB
```

```cpp
cout << "Test substr \n" << "arr9 : " << arr9 << "\narr6 : " << arr6<<"\narr9=arr6.substr(3,3) : ";
arr9 = arr6.substr(3, 3);
cout << arr9 << "\n\n";
```

```
Test insert
arr6 : AAAAABBB

arr7 : BBB

arr6.insert(2,arr7) : AABBBAAABBB

Test insert
arr9 : AAB

arr8 : CCCCCCCCC

arr9.insert(2,arr8,3,5) : AACCCCCB
```

```cpp
cout << "Test insert \n" << "arr6 : " << arr6 << "\narr7 : " << arr7 << "\n" << "arr6.insert(2,arr7) : ";
arr6.insert(2, arr7);
cout << arr6 << "\n\n";

cout << "Test insert \n" << "arr9 : " << arr9 << "\narr8 : " << arr8 << "\n" << "arr9.insert(2,arr8,3,5) : ";
arr9.insert(2, arr8, 3, 5);
cout << arr9 << "\n\n";
```

```
Test erase
arr9 : AACCCCCB

arr9.erase(1,3) : ACCCB
```

```cpp
cout << "Test erase \n" << "arr9 : " << arr9 << "\narr9.erase(1,3) : ";
arr9.erase(1,3);
cout << arr9 << "\n\n";
```

```
Test find
30
-1
0
```

```cpp
cout << "Test find \n";
MyString arr10("x to be or not to be, that is cool question"), arr11("cool"), arr12("cxxl");
cout << arr10.find(arr11) << "\n" << arr10.find(arr12) << "\n" << arr10.find_first_of(arr12) << "\n\n";
```