



# MyString()

```
MyString a1;  
cout << "a1=" << "size:" << a1.getSize() << endl;  
cout << "capacity:" << a1.getCapacity() << endl << endl;
```

```
a1=size:0  
capacity:10
```

# MyString(const char \*s), MyString(const char \*s)

```
char t1[] = "abc", t2[] = "defguwqeitutqq";  
MyString a2(t1), a3(t2);  
cout << "a2=" << a2 << endl << "size:" << a2.getSize() << endl;  
cout << "capacity:" << a2.getCapacity() << endl;  
cout << "a3=" << a3 << endl << "size:" << a3.getSize() << endl;  
cout << "capacity:" << a3.getCapacity() << endl << endl;  
cout << "a2=a3"<<endl;  
a2 = a3;  
cout << "a2=" << a2 << endl;  
cout << "a3=" << a3 << endl<<endl;
```

```
a2=a b c  
size:3  
capacity:10  
a3=d e f g u w q e i u t q q  
size:13  
capacity:20  
  
a2=a3  
a2=d e f g u w q e i u t q q  
a3=d e f g u w q e i u t q q
```

# MyString(const MyString&str, int pos, int msize)

```
char t3[] = "abc";  
MyString a4(t3), a5(a4, 1, 2);  
cout << "a4=" << a4 << endl;  
cout << "a5(a4, 1, 2)" << endl;  
cout << "a5=" << a5 << endl<<endl;
```

```
a4=a b c  
a5(a4, 1, 2)  
a5=b c
```

# MyString& append(const MyString&)

```
char t6[] = "abcefg", t7[] = "hhhhh";  
MyString a6(t6), a7(t7);  
cout << "a6=" << a6 << endl;  
cout << "a7=" << a7 << endl<<endl;  
cout << "a6+a7=" << a6.append(a7) << endl<<endl;
```

a6=a b c e f g  
a7=h h h h h  
a6+a7=a b c e f g h h h h h

MyString& insert(int po, const MyString&);  
MyString& insert(int po, const MyString&, int  
subpos, int sublen);

```
char t8[] = "a1234", t9[] = "insert";  
MyString a8(t8), a9(t9);  
cout << "a8=" << a8 << endl;  
cout << "a9=" << a9 << endl;  
cout << "a8.insert(3,a9)=" << a8.insert(3,a9)<<endl;  
cout << "a8.insert(3, a9, 0, 2)=" << a8.insert(3, a9, 0, 2) << endl<<endl;  
char t10[] = "qwertyui";
```

```
a8=a 1 2 3 4  
a9=i n s e r t  
a8.insert(3,a9)=a 1 2 i n s e r t 3 4  
a8.insert(3, a9, 0, 2)=a 1 2 i n s i n s e r t 3 4
```

MyString substr(int po, int len = msize)const;

```
char t10[] = "qwertyui";  
MyString a10(t10);  
cout << "a10.substr(3,3)=" << a10.substr(3, 3) << endl<<endl;
```

```
a10.substr(3,3)=r t y
```

# MyString& erase(int po, int len);

```
char t11[] = "aaaassssdddd";  
MyString all(t11);  
cout << "all=" << all << endl;  
cout << "all.erase(3,5)=" << all.erase(3, 5) << endl << endl;
```

```
all=a a a a s s s s d d d d  
all.erase(3,5)=a a a d d d d
```



```
int find(const MyString&, int pos = 0)const;  
int find_first_of(const MyString&, int pos = 0)const;
```

```
char t12[] = "no happy new year", t13[] = "new";  
MyString a12(t12), a13(t13);  
cout << "a12=" << a12 << endl;  
cout << "a13=" << a13 << endl;  
cout << "a12.find(a13,0)=" << a12.find(a13, 0) << endl;  
cout << "a12.find first of(a13,0)=" << a12.find first of(a13, 0) << endl << endl;
```

```
a12=n o   h a p p y   n e w   y e a r  
a13=n e w  
a12.find(a13,0)=9  
a12.find_first_of(a13,0)=0
```

operator>>, operator<<

```
MyString a14;  
cout << "cin>>";  
cin >> a14;  
cout << "a14=" << a14 << endl << endl;
```

```
cin>>1234
```

```
a14=1 2 3 4
```

# Exception handling

```
cout << "Exception handling" << endl;
char t15[] = "no happy new year", t16[] = "new";
MyString a15(t15), a16(t16);
cout << "a15=" << a15 << endl;
cout << "a16=" << a16 << endl;
cout << "a16.erase(2,9)=" << a16.erase(2, 9) << endl;
cout << "a15.insert(0,a16,1,9)=" << a15.insert(0, a16, 1, 2) << endl;
cout<<"a15.substr(3,999)="<< a15.substr(3, 999)<<endl;
```

```
Exception handling
a15=n o   h a p p y   n e w   y e a r
a16=n e w
a16.erase(2,9)=n e
a15.insert(0,a16,1,9)=e n o   h a p p y   n e w   y e a r
a15.substr(3,999)=   h a p p y   n e w   y e a r
```