

Hw702測試報告

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MyString(const char *s)

```
12  MyString s1(A);  
13  cout << "A[] = " << A << endl;  
14  cout << "s1(A) = " << s1 << endl;  
15  cout << "  ans = " << "Good morning!" << endl;
```

將A[] = “Good morning”存入s1

```
A[] = Good morning!  
s1(A) = Good morning!  
  ans = Good morning!
```

MyString(const MyString &str)

```
17   MyString s2(s1);  
18   cout << "s2(s1) = " << s2 << endl;  
19   cout << "    ans = " << "Good morning!" << endl;
```

將s1存入s2

```
s2(s1) = Good morning!  
    ans = Good morning!
```

MyString(const MyString &str, size_t pos, size_t len=msize)

s3:擷取
s1[5]~s1[11]
(morning)
S4: 從s1[5]
開始擷取
(morning!)

```
21  MyString s3(s1, 5, 7);  
22  cout << "s3(s1, 5, 7) = " << s3 << endl;  
23  cout << "          ans = " << "morning" << endl;  
24  
25  MyString s4(s1, 5);  
26  cout << "s4(s1, 5) = " << s4 << endl;  
27  cout << "          ans = " << "morning!" << endl;
```

```
s3(s1, 5, 7) = morning  
          ans = morning  
s4(s1, 5) = morning!  
          ans = morning!
```

append(const MyString &str)

```
29 char B[] = "Happy ";
30 MyString s5(B);
31 cout << "B[] = " << B << endl;
32 cout << "s5(B) = " << s5 << endl;
33 char C[] = "birthday!";
34 MyString s6(C);
35 cout << "C[] = " << C << endl;
36 cout << "s6(C) = " << s6 << endl;
37 cout << "s5.append(s6) = " << s5.append(s6) << endl;
38 cout << "          ans = " << "Happy birthday!" << endl;
```

將一個MyString接在另一個MyString後面

```
B[] = Happy
s5(B) = Happy
C[] = birthday!
s6(C) = birthday!
s5.append(s6) = Happy birthday!
          ans = Happy birthday!
```

insert(size_t pos, const MyString &str)

```
40 char D[] = "Happy Year!!!";
41 MyString s7(D);
42 cout << "D[] = " << D << endl;
43 cout << "s7(D) = " << s7 << endl;
44 char E[] = "new ";
45 MyString s8(E);
46 cout << "E[] = " << E << endl;
47 cout << "s8(E) = " << s8 << endl;
48 cout << "s7.insert(6, s8) = " << s7.insert(6, s8) << endl;
49 cout << "ans = " << "Happy new Year!!!" << endl;
```

將s8從s7[6]插入

```
D[] = Happy Year!!!
s7(D) = Happy Year!!!
E[] = new
s8(E) = new
s7.insert(6, s8) = Happy new Year!!!
ans = Happy new Year!!!
```

insert(size_t pos, const MyString &str, size_t subpos, size_t sublen)

```
51 char F[] = "A brand NEW car";  
52 MyString s9(F);  
53 cout << "F[] = " << F << endl;  
54 cout << "s9(F) = " << s9 << endl;  
55 cout << "s7 = " << s7 << endl;  
56 cout << "s7.insert(6, s9, 8, 3) = " << s7.insert(6, s9, 8, 4) << endl;  
57 cout << "ans = " << "Happy NEW new Year!!!" << endl;
```

將s9[8]~s9[10]
從s7[6]插入

```
F[] = A brand NEW car  
s9(F) = A brand NEW car  
s7 = Happy new Year!!!  
s7.insert(6, s9, 8, 3) = Happy NEW new Year!!!  
ans = Happy NEW new Year!!!
```

substr(size_t pos, size_t len)

```
59 char G[] = "Nice to meet you.";
60 MyString s10(G);
61 cout << "G[] = " << G << endl;
62 cout << "s10(G) = " << s10 << endl;
63 cout << "s10.substr(8, 4) = " << s10.substr(8, 4) << endl;
64 cout << "          ans = " << "meet" << endl;
```

擷取字串的一段

```
G[] = Nice to meet you.
s10(G) = Nice to meet you.
s10.substr(8, 4) = meet
          ans = meet
```


erase(size_t pos, size_t len)

```
66 char H[] = "Have a nice nice nice day.";
67 MyString s11(H);
68 cout << "H[] = " << H << endl;
69 cout << "s11(H) = " << s11 << endl;
70 cout << "s11.erase(7, 10) = " << s11.erase(7, 10) << endl;
71 cout << "ans = " << "Have a nice day." << endl;
```

將

s11[7]~s11[16]

刪除

```
H[] = Have a nice nice nice day.
s11(H) = Have a nice nice nice day.
s11.erase(7, 10) = Have a nice day.
ans = Have a nice day.
```

find(const MyString &str, size_t pos)

```
73 char I[] = "You can say that again.";
74 MyString s12(I);
75 cout << "I[] = " << I << endl;
76 cout << "s12(I) = " << s12 << endl;
77 cout << "s12.find(\"that\") = ";
78 if (s12.find("that") == -1)
79 {
80     cout << "Not found" << endl;
81 }
82 else
83 {
84     cout << s12.find("that") << endl;
85 }
86 cout << "          ans = " << "12" << endl;
```

```
I[] = You can say that again.
s12(I) = You can say that again.
s12.find("that") = 12
          ans = 12
s12.find("treat") = Not found
          ans = Not found
```

```
88 cout << "s12.find(\"treat\") = ";
89 if (s12.find("treat") == -1)
90 {
91     cout << "Not found" << endl;
92 }
93 else
94 {
95     cout << s12.find("treat") << endl;
96 }
97 cout << "          ans = " << "Not found" << endl;
```

尋找指定字串在s12的起
始點，若沒有則輸出
Not Found

find_first_of(const MyString &str, size_t pos)



```
99 char J[] = "This is cotton candy.";
100 MyString s13(J);
101 cout << "J[] = " << J << endl;
102 cout << "s13(J) = " << s13 << endl;
103 cout << "s13.find_first_of(\"that\") = ";
104 if (s13.find_first_of("free") == -1)
105 {
106     cout << "Not found" << endl;
107 }
108 else
109 {
110     cout << s13.find_first_of("free") << endl;
111 }
112 cout << "ans = " << "Not found" << endl;
```

```
114 cout << "s13.find_first_of(\"candy\") = ";
115 if (s13.find_first_of("candy") == -1)
116 {
117     cout << "Not found" << endl;
118 }
119 else
120 {
121     cout << s13.find_first_of("candy") << endl;
122 }
123 cout << "ans = " << "8" << endl;
```

```
J[] = This is cotton candy.
s13(J) = This is cotton candy.
s13.find_first_of( 'that' ) = Not found
ans = Not found
s13.find_first_of( 'candy' ) = 8
ans = 8
```

尋找指定字串中的字元在s13中第一個出現的位置，若沒有則輸出
Not found

operator<<

```
125   MyString s14;  
126   cin >> s14;  
127   cout << s14 << endl;
```

輸入=>

輸出=>

```
hdtuyfcyi fvj fc  
hdtuyfcyi fvj fc
```