

# 프로그래밍 언어 – string

최백준 [choi@startlink.io](mailto:choi@startlink.io)

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# string

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# string

STL

3

```
string s1;
```

```
char c[] = "c string";
```

```
string s2(c);
```

```
string s3 = c;
```

```
c[1] = '\0';
```

```
string s4(c);
```

```
string s5 = c;
```

```
string s6(10, '!');
```

```
string s7 = "abcdefg";
```

# string

STL

c string

c string

c

c

!!!!!!!!!!

abcdefg

# string

STL

```
string s1, s2;  
cin >> s1 >> s2;  
cout << s1 << ' ' << s2;
```

# 단어의 개수

<https://www.acmicpc.net/problem/1152>

- <https://gist.github.com/Baekjoon/32d83ef9853706fb2386>

# 문자열 분석

<https://www.acmicpc.net/problem/10820>

- <https://gist.github.com/Baekjoon/228b31a4f2fb84e49f0a>

# 정수의 개수

<https://www.acmicpc.net/problem/10821>

- <https://gist.github.com/Baekjoon/dcd8751c1ff39204483a>
- getline의 세 번째 인자는 구분자



# string

STL

```
string s1, s2;  
cin >> s1 >> s2;  
cout << s1 << ' ' << s2;
```

# string

STL

10

```
string s = "abc";  
printf("%s\n",s.c_str());
```

```
s += "def";  
printf("%s\n",s.c_str());
```

```
s = "";  
printf("%s\n",s.c_str());
```

```
s = "abcdefghijklmnopqrstuvwxyz";  
printf("%s\n",s.c_str());
```

# string

STL

11

```
string s = "book";  
cout << s << ": " << s.size() << '\n';  
cout << s << ": " << s.length() << '\n';
```

```
s = "";
```

```
cout << s << ": " << s.size() << '\n';  
cout << s << ": " << s.size()-1 << '\n';
```

# string

STL

book: 4

book: 4

: 0

: 18446744073709551615

# 단어 길이 재기

<https://www.acmicpc.net/problem/2743>

- <https://gist.github.com/Baekjoon/ca6054e85bad2a517002>

# string

STL

14

```
string s = "book";  
cout << s << ": " << s.empty() << '\n';
```

```
s = "";  
cout << s << ": " << s.empty() << '\n';
```

# string

STL

```
string s1 = "string";
string s2 = "stirng";

if (s1 == s2) {
    cout << "s1 == s2" << '\n';
} else if (s1 != s2) {
    cout << "s1 != s2" << '\n';
}

if (s1 < s2) {
    cout << "s1 < s2" << '\n';
} else if (s1 > s2) {
    cout << "s1 > s2" << '\n';
}
```

# string

STL

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```
string a = "Hello";
```

```
string b = "World";
```

```
string hello_world = a + " " + b;
```

```
hello_world += "!";
```

```
cout << hello_world << '\n';
```



# string

STL

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```
string a = "Hello";
```

```
string b = "World";
```

```
string hello_world = a + " " + b;
```

```
hello_world.push_back('!');
```

```
cout << hello_world << "\n";
```

# string

STL

```
string a = "He";  
a.append(2, 'l'); // "Hell"  
a.append("o").append(1, ' '); // "Hello "  
  
string b = "";  
const char *c = "World";  
b.append(c); // "World"  
  
string hello_world = a; // "Hello "  
hello_world.append(b); // "Hello World"  
hello_world.push_back('!'); // "Hello World!"  
  
cout << hello_world << '\n';
```

# string

STL

```
string s = "e"; // "e"
```

```
s.insert(0, "H"); // "He"
```

```
s.insert(2, "o"); // "Heo"
```

```
s.insert(2, 2, 'l').append(" "); // "Hello "
```

```
string world = "Half the World Away";
```

```
s.insert(6, world, 9, 5).push_back('!'); // "Hello World!"
```

# string

STL

20

```
string str = "10";  
int number = stoi(str);  
print(str, number);
```

```
number = stoi(str, 0, 2);  
print(str, number);
```

```
str = "ffff";  
number = stoi(str, 0, 16);  
print(str, number);
```

# string

STL

21

```
str = "21 Guns";  
number = stoi(str);  
print(str, number);
```

```
str = "3.141592";  
number = stoi(str);  
print(str, number);
```

# string

STL

22

```
/*  
str = "2147483648";  
number = stoi(str);  
print(str, number);  
  
str = "hello";  
number = stoi(str);  
print(str, number);  
*/
```

# 더하기

<https://www.acmicpc.net/problem/10822>

- <https://gist.github.com/Baekjoon/c5a8983b405951c9e4a2>

# 더하기 2

<https://www.acmicpc.net/problem/10823>

- <https://gist.github.com/Baekjoon/308a504b631264363a20>
- string을 표준 입출력 처럼 사용하려면 istream 을 사용한다



# string

STL

- unsigned long: `stoul`
- unsigned long long: `stoull`
- float: `stof`
- double: `stod`
- long double: `stold`

# string

STL

```
int n1 = 1;
```

```
int n2 = 2;
```

```
string s1 = to_string(n1);
```

```
string s2 = to_string(n2);
```

```
cout << s1 + ' ' + s2 << '\n';
```

# string

STL

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```
long long l1 = 2147483647;
```

```
long long l2 = 2147483647;
```

```
s1 = to_string(l1);
```

```
s2 = to_string(l2);
```

```
cout << s1 + ' ' + s2 << '\n';
```

# string

STL

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```
double d = 3.141592;  
float f = 65358979.0;
```

```
s1 = to_string(d);  
s2 = to_string(f);
```

```
cout << s1 + ' ' + s2 << '\n';
```

# 네수

<https://www.acmicpc.net/problem/10824>

- <https://gist.github.com/Baekjoon/88d1ecca80dd87b17dd2>