C++标准库中的string，基础是template class basic\_string<>，标准特化版string，wstring，u16string和u32string。

例：程序stl\_test83

const *string* delims(" \t,.;");

*string* line;

while (*getline*(*cin*, line))

{

*string*::*size\_type* begin\_index, end\_index;

begin\_index = line.*find\_first\_not\_of*(delims);

while (begin\_index != *string*::*npos*)

{

end\_index = line.*find\_first\_of*(delims, begin\_index);

if (end\_index == *string*::*npos*)

{

end\_index = line.*length*();

}

for (int i = end\_index - 1; i >= static\_cast<int>(begin\_index); --i)

{

*cout* << line[i];

}

*cout* << ' ';

begin\_index = line.*find\_first\_not\_of*(delims, end\_index);

}

*cout* << *endl*;

}

测试结果为：

qwert

trewq

wert

trew

1234

4321

string对迭代器Iterator的支持。

例：程序stl\_test84，大小写转换

*string* s("The zip code of Braunschweig in Germany is 38100");

*cout* << "original: " << s << *endl*;

// lowercase all characters

*transform*(s.*cbegin*(), s.*cend*(),

s.*begin*(),

[](char c) {

return *tolower*(c);

});

*cout* << "lowered: " << s << *endl*;

// uppercase all characters

*transform*(s.*cbegin*(), s.*cend*(),

s.*begin*(),

[](char c) {

return *toupper*(c);

});

*cout* << "uppered: " << s << *endl*;

输出为：

original: The zip code of Braunschweig in Germany is 38100

lowered: the zip code of braunschweig in germany is 38100

uppered: THE ZIP CODE OF BRAUNSCHWEIG IN GERMANY IS 38100

例：程序stl\_test84

const *string* hello("Hello, how are you?");

*string* s1(hello.*cbegin*(), hello.*cend*());

for (char c : s1)

{

*cout* << c;

}

*cout* << *endl*;

*reverse*(s1.*begin*(), s1.*end*());

*cout* << "reverse: " << s1 << *endl*;

*sort*(s1.*begin*(), s1.*end*());

*cout* << "ordered: " << s1 << *endl*;

输出为：

Hello, how are you?

reverse: ?uoy era woh ,olleH

ordered: ,?Haeehlloooruwy