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// basic_string_ctor.cpp
// compile with: /EHsc
#include <string>
#include <iostream>
int main( )
  using namespace std;
   // The first member function initializing with a C-string
   const char *cstrla = "Hello Out There.";
   basic_string <char> strla ( cstrla , 5);
   cout << "The string initialized by C-string cstrla is: "</pre>
        << strla << "." << endl;
   // The second member function initializing with a string
   string str2a ( "How Do You Do?" );
   basic_string <char> str2b ( str2a , 7 , 7 );
   cout << "The string initialized by part of the string "</pre>
        << "cstr2a is: "
        << str2b << "." << endl;
   // The third member function initializing a string
   // with a number of characters of a specific value
   basic_string <char> str3a ( 5, '9' );
   cout << "The string initialized by five number 9s is: "</pre>
        << str3a << endl;
   // The fourth member function creates an empty string
   // and string with a specified allocator
   basic_string <char> str4a;
   string str4b;
   basic_string <char> str4c ( str4b.get_allocator( ) );
   if (str4c.empty ( ) )
      cout << "The string str4c is empty." << endl;</pre>
   else
      cout << "The string str4c is not empty." << endl;</pre>
   // The fifth member function initializes a string from
   // another range of characters
   string str5a ( "Hello World" );
   basic string <char> str5b(str5a.begin() + 5, str5a.end());
   cout << "The string initialized by another range is: "</pre>
        << str5b << "." << endl;
   //self
   string *ps = new string(5, '9');
   cout << "*ps = "<< *ps << endl;
   cin.get();
```