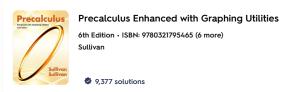
CH10QUIZ

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Textbook solutions for this set





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Terms in this set (76)

What header file to you need to include to use the standard C++ error-handling classes?	<stdexcept></stdexcept>
The logic_error and runtime_error classes are defined in the header file	stdexcept

What prints?	three
string s("hello");	
try {	
auto x = s.at(s.size()); 🔅	
cout << "one" << endl;	
}	
catch (const string& e) { cout << "two\n"; }	
catch (exception& e) { cout < "three\n"; }	
catch () { cout << "four\n"; }	
What prints?	one
string s("hello");	
try {	
if (s.size() > 20) throw 42;	
if (isupper(s.back())) throw "goodbye";	
if (s == "Hello") throw string("hello");	
s.at[s.size()] = 'x'; 🔅	
cout << "one\n";	
}	
catch (const int& e) { cout << "two\n"; }	
catch (const string& e) { cout << "three\n"; }	
catch (exception& e) { cout << "four\n"; } catch () { cout << "five\n"; }	
Catch () { Coot \(\) iive(ii, \)	
What prints?	five
string s("hello");	
try {	
if (s.size() > 2) throw s.size(); 🌣	
if (islower(s.back())) throw s.back();	
s.at(s.size()) = 'x';	
cout << "one\n";	
}	
catch (const int& e) { cout << "two\n"; }	
catch (const string& e) { cout << "three\n"; }	
catch (exception& e) { cout << "four\n"; }	
catch () { cout << "five\n"; }	
➤ I F (s.size() > 2) && throw s.size() && throw s.back()	
What prints?	two
mac prints:	
string s("hello");	
try {	
if (s.size() > 5) throw s.size(); 🔅	
if (isupper(s.back())) throw s.back(); 🔆	
if (s == "hello") throw string("hello");	
s.at(s.size()) = 'x';	
cout << "one\n";	
}	
catch (const string& e) { cout << "two\n"; }	
catch (exception& e) { cout << "three\n"; }	
catch () { cout << "four\n"; }	

More Options

Got it

```
What prints?
                                                                                               two
          string s("hello");
          try {
          if (s.size() > 2) throw 42; 🔅
          if (islower(s.back())) throw "goodbye"; 🔅
          if (s == "hello") throw string("hello");
          s.at(s.size()) = 'x';
          cout << "one\n";
          catch (const int& e) { cout << "two\n"; }
          catch (const string& e) { cout << "three\n"; }
          catch (exception& e) { cout << "four\n"; }
          catch (...) { cout << "five\n"; }
          ➤ I F (s.size() > 2) && throw 42; && throw "goodbye";
What prints?
string s("hello");
if (s.size() > 20) throw 42; 🔅
if (islower(s.back())) throw "goodbye"; 🔅
if (s == "hello") throw string("hello");
s.at(s.size()) = 'x';
cout << "one\n";
catch (const int& e) { cout << "two\n"; }
catch (const string& e) { cout << "three\n"; }</pre>
catch (exception& e) { cout << "four\n"; }
catch (...) { cout << "five\n"; }

ightharpoonup I F (s.size() > 20) && throw 42; && (islower(s.back())) throw "goodbye";
What prints?
                                                                                               four
string s("hello");
try {
if (s.size() > 20) throw 42;
if (isupper(s.back())) throw "goodbye";
if (s == "Hello") throw string("hello");
s.at(s.size()) = 'x';
cout << "one\n";
}
catch (const int& e) { cout << "two\n"; }
catch (const string& e) { cout << "three\n"; }</pre>
catch (exception& e) { cout << "four\n"; }</pre>
catch (...) { cout << "five\n"; }

ightharpoonup I F (s.size() > 2) && throw 42; && (isupper(s.back())) throw "goodbye";
                          What is correct for # 1?
                                                                                              try
                          int main()
                          {
                          //1
                          string s = "hello";
                          cout << s.at(5) << endl;
                          }
                          // 2
                          // 3
                          ( e)
                          cout << e. () << endl;
                          // 4
                          What is correct for # 2?
                                                                                               catch
                          int main()
                          {
                         //1
                          {
                         string s = "hello";
                          cout << s.at(5) << endl;
                         }
                          // 2
                          // 3
                          ( e)
                          {
                          cout << e. () << endl;
                          // 4
```

```
What is correct for # 3?
                                                         exception&
int main()
{
//1
{
string s = "hello";
cout << s.at(5) << endl;
}
// 2
// 3
( e)
{
cout << e. () << endl;
// 4
}
}
```

	What is correct for # 4? int main() { //1 { string s = "hello"; cout << s.at(5) << endl; } // 2 // 3		what
	(e) { cout << e. () << endl; // 4 }		
The C++11 standard library prointeger. Which library is it fou	ovides the function stoi() to convert a string to an and in?		string
What preprocessor directive that are only compiled unde	is not used when you wish to create blocks of code r certain circumstances?		#define #ifdef #ifndef #if> All of these may be used
Code that may cause an error handles the error should be	or should be placed in a block and code that inside a block?		try, catch
The class is the ba	ase of the classes designed to handle exceptions		exception
A(n) is an occurrence of a program execution	an undesirable situation that can be detected during		exception
What statement is used to signas occurred?	gnal other parts for your program that a particular error		throw
The class is designed	to deal with illegal arguments used in a function call.	I	invalid_argument
What is t	the purpose of the throw statement?	I	It is used to pass control to an error handler when an error situation is detected.
The try bloc	k is followed by one or more blocks.	I	catch

catch(){ }
what
one
sqrt() returns a not-a-number error value
True

A catch() will catch any kind of thrown exception	True
Functions with generic parameters are known as function templates.	True
A completion code is a special return value that means "the function failed to execute correctly."	True

Calling a function like to_string(3.5) is known as implicit instantiation	True
To use different versions of a function depending on the platform is called conditional compilation.	True
Building your code with more than one copy of a function leads to a clash of symbols.	True
A template function may be defined in a header file.	True
The predefined constant _cpluplus indicates which version of the C++ standard is being used	True
One of the main problems with the completion code strategy of error handling is that callers can ignore the return value without encountering any warnings	True
Calling a function like to_string <int>(3.5) is known as implicit instantiation.</int>	False
The line: $cin >> n$; throws a runtime exception if n is an int and it tries to read the input "one".	False
The preprocessor operates on code after it has been compiled.	False
The directives #if defined(symbol) and #ifdef symbol mean, essentially, the same thing	True
The directives #if defined(symbol) and #ifndef symbol mean, essentially, the same thing.	False

A catch block may handle exception classes, as well as errors where int or string are thrown	True
A catch block may only handle objects from classes derived from exception or logic_error	False
A catch block specifies the type of exception it can catch and immediately terminates the program	False
A catch block is a block of code where runtime or logical errors may occur	False
You can report a logical error encountered in your code by using the throw keyword	True
You can report a syntax error encountered in your code by using the throw keyword	False
Functions with generic parameters may use the keyword class or the keyword typename for their type parameters	True
Functions with generic parameters may use the keyword class or the keyword struct for their type parameters	False
The #if preprocessor directive can compare integers	True
The #if preprocessor directive may compare double literals but not variables	False
The standard library version of sqrt(-2) returns the not-a-number error code	True
The standard library version of sqrt(-2) throws a runtime exception because there is no possible answer	False
You compiler or contains constants that can be used to identify the platform you are compiling on	True
A specialized error handling block of code, is called a catch block	True

The standard library version of stoi("UB-40") throws a runtime exception because there is no viable conversion	True
The standard library version of stoi("UB-40") returns the not-a-number error code.	False
The order of the catch blocks does not affect the program.	False
If no exception is thrown in a try block, all catch blocks associated with that try block are ignored.	True

When you throw an exception, control immediately jumps out of the current try block.	True
The preprocessor operates on code before it has been compiled.	False
The statement #if abs(-3) > 2 is legal.	False
A template function may be declared in a header file but must be defined in an implementation file.	False
The heading of a try block can contain ellipses in place of a parameter	False
When you throw an exception, control immediately returns from the current function	False
The line: ifstream in("x"); throws a runtime exception if a file x cannot be found	False
What happens when this code fragment runs?	stoi() returns 12
cout << stoi("12") << endl;	
What happens when this code fragment runs in C++ 11?	It throws a runtime exception
cout << stoi("one") << endl;	
Which of the following statements throws a valid exception in C++?	throw 2;
Suppose you have written a program that inputs data from a file. If the input file does not exist when the program executes, then you should choose which option?	Terminate the program.
What happens when this code fragment runs?	n is set to 12
istringstream in("12.5");	
int n; in >> n;	
What happens when this code fragment runs?	n is set to 12
istringstream in("12"); int n;	
in >> n;	
What happens when this code fragment runs?	It sets an error state in in.
istringstream in(".5"); int n;	
in >> n;	
What happens when this code fragment runs in C++ 11?	It sets an error state in in.
istringstream in("one");	
int n; in >> n;	
To deal with logical errors in a program, such as string subscript out of range or an invalid argument to a function call, several classes are derived from the class	logic_error
Which line fails to work correctly?	ANSWER> None of these print(2 + 2);
template <typename t=""></typename>	print(string("goodbye"));
void print(const T& item) {	<pre>print(3 + 2.2); print("hello");</pre>
cout << item << endl;	
}	<u> </u>
Assume s1 and s2 are C++ string objects. Which of these calls is illegal?	addem(1.5, 2);
template <typename t=""> void addem(T a, T b)</typename>	
{	

Which call below produces 5? addem<int>(3, 2.5); template <typename T> void addem(T a, T b) cout << a << " + " << b << "->" << (a + b) << endl; Assume s1 and s2 are C++ string objects. Which of these calls is illegal? ANSWER --> None of these addem(1.5, 2); template <typename T> addem(s1, s2); addem(3, 4) void addem(T a, U b) addem(4.5, 5.5); cout << a << " + " << b << "->" << (a + b) << endl; } What happens when this code fragment compiles and runs? prints "Hello" #define N #ifdef N cout << "Hello"; #else cout << "Goodbye"; #endif What happens when this code fragment compiles and runs? prints "Goodbye" #define N #ifndef N cout << "Hello"; #else cout << "Goodbye"; #endif What term describes this block of code? conditional compilation #if _APPLE_ istringstream in(" .75"); int n = 3; in >> n; #endif Complete the code fragment below, which is designed to throw an illegal_length $throw\ illegal_length ("Account number\ exceeds\ maximum\ length");$ exception if string variable account Number has more than seven characters. if (accountNumber.size() > 7)