midterm 3 cs150

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Terms in this set (111)

An is an object which specifies the position of an element inside a container, regardless of what kind of container you use. pointer subscript index iterator lambda What is x?			
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index iterator lambda What is x? vector <int> v{1, 2, 3}; auto x = min_max_element(v.begin(), v.end()); 1 an iterator a std::pair object None of these</int>	pointer		
iterator lambda What is x? vector <int> v{1, 2, 3}; auto x = min_max_element(v.begin(), v.end()); l an iterator a std::pair object None of these</int>	subscript		
What is x? vector <int> v{1, 2, 3}; auto x = min_max_element(v.begin(), v.end()); 1 an iterator a std::pair object None of these</int>	index		
What is x? vector <int> v{1, 2, 3}; auto x = min_max_element(v.begin(), v.end()); 1 an iterator a std::pair object None of these</int>	iterator		
<pre>vector<int> v{1, 2, 3}; auto x = min_max_element(v.begin(), v.end()); 1 an iterator a std::pair object None of these</int></pre>	lambda		
<pre>vector<int> v{1, 2, 3}; auto x = min_max_element(v.begin(), v.end()); 1 an iterator a std::pair object None of these</int></pre>			
auto x = min_max_element(v.begin(), v.end()); 1 an iterator a std::pair object None of these	What is x?		
l an iterator a std::pair object None of these	vector <int> v{1, 2, 3};</int>		
a std::pair object None of these	auto x = min_max_element(v.begin(), v.end());		
a std::pair object None of these			
a std::pair object None of these	1		
None of these	an iterator		
	a std::pair object		
3	None of these		
	3		

The C++11 standard library provides the function stoi() to convert a string to an integer. Which library is it found in?	string
None of these	
iostream	
cmath	
cnvt	
string	
What happens when this code fragment compiles and runs? #define N #ifndef N cout << "Hello";#else cout << "Goodbye"; #endif	prints "Goodbye"
It does not compile.	
prints "Goodbye"	
prints "HelloGoodbye"	
prints "Hello"	
prints nothing	

	. ~
struct Employee	
{	
long empID;	
std::string lastName;	
double salary;	
int age;	
} ;	
Employee bob{777, "Zimmerman"};	
Employee bob(777, Ziminerman),	
None of these	
salary	
empID	
lastName	
age	
	l
An unnamed (anonymous) function is called a(n):	lambda
iterator	
None of these	
functor	
lambda	
stub	
Assuming that you have an iterator named iter. Which	auto b = *iter;
statement retrieves the element that iter refers to?	
auto c = &iter	
auto a = ++iter;	
auto b = *iter;	
auto d = iter;	
None of these	
Assume that ppi correctly points to pi. Which line prints the	cout << &ppi
	τουτ Νάρρι,
address of ppi?	
int main()	
{	
double pi = 31/150:	
double pi = 3.14159;	
double *ppi;	
// code goes here	
// code goes here	
}	
None of these	
cout << π	
cout << &ppi	
cout << *ppi;	
cout << ppi;	
What is the address of the first pixel in the last row of this	p + w * (h - 1)
image?	
Pixel *p; // address of pixel data	
int w, h; // width and height of image	
p + w * h	
p + w + (h - 1)	
p + w + (h - 1)	
p + w + h	
p + w + h None of these are correct	
p + w + h	

midterm 3 cs150	Study
int *p;	
*p = n;	
cout << *p << endl;	
None of these	
Will not compile	
No compilation errors, but undefined behavior when run	
The value 0 (stored in n)	
The address value where n is stored	
What happens with the following section of code?	All lines will be included in the program. It will print the platform you are running on. wrong
if (_APPLE_)cout << "Running on a Mac" << endl;	Only the lines that identify your platform will be included in the executable wrong
else if (_WIN32)cout << "Running on Windows" << endl;	
else if (_linux)cout << "Running on Linux" << endl;	
elsecout << "Running on an unknown platform" << endl;	
the program will not compile	
All lines will be included in the program.	
It will print the platform you are running on.	
The program will crash if compiled on one platform, but run	
on another.	
Only the lines that identify your platform will be included in	
the executable	
What term describes this block of code?	conditional compilation
#if _APPLE_	
istringstream in(" .75");	
int n = 3;	
in >> n;	
#endif	
conditional compilation	
proprietary compilation	
None of these	
selection statements	
alternative compilation	
compiler directives	
,	
In a sequence of try/catch blocks, the last catch block of that sequence should be	catch(){ }
sequence should be	
catch(exception){}	
catch(int x){ }	
catch(str){ }	
catch(){ } PreviousNext	
FIEVIOUSIYEXL	
The logic_error and runtime_error classes are defined in the	stdexcept
header file	

exception stdlib stdexcept stdex

int n; in >> n; n is set to 5 None of these It does not compile. It compiles, but fails to link It throws a runtime exception It sets an error state in in. What prints when this code runs? wrong enum class Coin Does not compile; Cannot assign NICKEL to c. Does not compile; Missing semicolon at end of list of members. PENNY = 1, NICKEL = 5, DIME = 10, QUARTER = 25 i think its 5 Coin c = NICKEL; cout << static_cast<int>(c) << endl;</pre> 5 Does not compile; Missing semicolon at end of list of Does not compile; Cannot assign NICKEL to c. 2 What prints when this code runs? enum class Coin PENNY = 1, NICKEL, DIME, QUARTER **}**; cout << static_cast<int>(Coin::DIME) << endl;</pre> 10 Does not compile; Missing semicolon at end of list of members. 3 2 Examine the following code (which is legal). Which statement m1 = m2; is legal? struct Money { int dollars{0}, cents{0}; } m1, m2; cout << m1 << endl; m1 = m2; $m2 = {3, 4}$ if (m1 != m2) . . . PreviousNext [1, 2, 3] What is stored in data after this runs? vector<int> data{1, 2, 3}; data.back(); [1, 2] [2, 3][1, 2, 3, 0] [1, 2, 3] None of these

```
{
                                                                     Issues a compiler warning, but no error
   vector<int> v{1, 2, 3};
   for (auto i = v.size() - 1; i >= 0; i--)
   cout << v.at(i) << " ";
   cout << endl;
   }
   Compiler error (does not compile)
   Endless loop (may crash, but not necessarily)
   Prints 3 2 1
   Crashes when run
   Issues a compiler warning, but no error
Points to the first element in v
                                                                     v.begin()
v.begin()
                                                                     vector<int> v;
Creates the empty vector []
vector<int> v;
                                                                     v.at(3);
Safely returns a reference to the fourth element in v
                                                                     v.pop_back()
v.at(3);
```

Used to access the data inside a variable

Removes the last element in v

-> variable name

v.pop_back()

Determines the amount of memory required and the operations permitted on a variable

-> variable type

The meaning assigned to a set of bits stored at a memory location

-> variable value

An object whose value is an address in memory

-> pointer

Expression using the address operator

-> p = &a;

Expression using the reference declarator

-> int x = 3;

Expression using the dereferencing operator

-> y = *a;

Expression using the pointer declarator

-> double * v;

Expression returning the number of allocated bytes used by an object

-> sizeof(Star)

Address value 0

-> nullptr

Used to access the data inside a variable

-> variable name

Determines the amount of memory required and the operations permitted on a variable

-> variable type

The meaning assigned to a set of bits stored at a memory location

-> variable value

An object whose value is an address in memory

-> pointer

Expression using the address operator

-> p = &a;

Expression using the reference declarator

-> int x = 3;

Expression using the dereferencing operator

-> y = *a;

Expression using the pointer declarator

-> double * v;

Expression returning the number of allocated bytes used by an object

-> sizeof(Star)

Address value 0

-> nullptr

More Options

```
cout << n << endl;
       The address value 0
       No compilation errors, but undefined behavior
       No output; compiler error.
       The word "nullptr"
Examine the following code. What is stored in a after it runs.
                                                                      3
int f(int * p, int x)
p = x 2;
return x / 2;
}
. . .
int a = 3, b, c;
c = f(\&b, a);
2
3
Does not compile
6
                                                                       33
                    What prints?
                    int a[] = {1, 3, 5, 7, 9};
                    int *p = a;
                    cout << *++p;
                    cout << *p << endl;
                    33
                    13
                    None of these
                    22
                    12
          What is printed when you run this code?
                                                                      20
          int n{};
          int *p = &n;
          *p = 10;
          n = 20;
          cout << *p << endl;
          10
          20
          The address of n
          None of these
Assume that ppi correctly points to pi. Which line prints the
                                                                       cout << *ppi;
value stored inside pi?
int main()
double pi = 3.14159;
double *ppi;
// code goes here
// code goes here
cout << *ppi;
None of these
cout << &ppi;
cout << ppi;
```

More Options

```
one
three
zero
two
       Which fragment completes this code segment?
                                                                          out.str()
       string fmt(double n, int decimals)
       ostringstream out;
       out << fixed << setprecision(decimals);
       out << n;
       return _____;
       out.to_string()
       None of these
       out.str()
       out
          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[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"; }</pre>
          catch (...) { cout << "five\n"; }
          one
          four
          Undefined
          five
          two
          three
Which line compiles, but crashes (throws an exception) when
                                                                          4
run?
int main()
vector<int> v{1, 2, 3};
auto size = v.size();
cout << v.back() << endl;// 1.
cout << v.front() << endl; // 2.
cout << v.at(0) << endl; // 3.
cout << v.at(size) << endl; // 4.
cout << v.pop_back() << endl; // 5
.}
4
5
1
2
3
```

cout << speed[5];
speed.front() = 12;
None of these
speed.erase(speed.begin());
speed[0] = speed.back()</pre>

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cout << speed[5] << endl; Which line has undefined output? double speed[5] = {...}; cout << speed[1] << endl;</pre> cout << speed[4] << endl;</pre> None of these cout << speed[5] << endl;</pre> cout << speed[0] << endl; What is printed when you run this code? The address value 0 int *n{nullptr}; cout << n << endl; The word "nullptr" No output; compiler error. No compilation errors, but undefined behavior The address value 0 What is printed when you run this code? No compilation errors, but undefined behavior int *n{nullptr}; cout << *n << endl; No compilation errors, but undefined behavior The word "nullptr" The address value 0 No output; compiler error. What is x? an iterator vector<int> v{1, 2, 3}; auto x = max_element(v.begin(), v.end()); a std::pair object an iterator None of these Nothing; compile-time error. What prints? vector<int> v{1, 2, 3, 4, 5}; cout << v.pop_back() << endl;</pre> 4 Nothing; compile-time error. Nothing; run-time error. 5

More Options

Got it

Study

```
vector<int> v{1, 2, 3};
               auto size = v.size();
               cout << v.back() << endl; // 1.
               cout << v.front() << endl; // 2.
               cout << v.at(0) << endl; // 3.
               cout << v.at(size) << endl; // 4.
               cout << v.pop_back() << endl; // 5.
               }
               5
               4
               3
     Which area of memory are local variables stored in?
                                                                             Stack
    Heap
    Initialized Data
    Uninitialized Data
    Stack
     Text
Which line throws and out_of_range exception?double
                                                                             None of these
speed[5] = {...};
cout << speed[1] << endl;</pre>
cout << speed[0] << endl;</pre>
None of these
cout << speed[4] << endl;</pre>
cout << speed[5] << endl;</pre>
             Which pointer initialization is illegal?
                                                                            int *p4 = &a;
             int a[] = {1, 3, 5, 7, 9};
             int *p3 = &a[1];
             int *p4 = &a;
             int *p2 = a + 3;
             int *p1 = a;
             None of these
          What prints?
                                                                             two
          string s("hello");
          try {
          if (s.size() > 2) throw 42;
          if (isupper(s.back())) throw "goodbye";
          if (s == "Hello") throw string("hello");
          s[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"; }</pre>
          catch (...) { cout << "five\n"; }
          one
          four
          Undefined
          five
          two
```

More Options

return	
throw	
None of these	
catch	
try	
raise	
Which of the following loop patterns are used here?	counter-controlled loop
auto len = str.size();	
while (len) out << str.at(len);	
counter-controlled loop	
iterator or range loop	
primed loop	
inline test	
limit loop	
loop-and-a-half	
data loop	
sentinel loop	
·	
What happens when you execute the (erroneous) line:	An exception is thrown, which may be caught. If it is not caught, the program terminates.
cout << stoi("fifteen") << endl;	
Nothing happens. The statement is skipped	
An exception is thrown, which may be caught	
An exception is thrown, which may be caught.	
If it is not caught, the program terminates.	
The program prints an error message and continues running	
The program prints arrendr message and continues running	
The conversion is impossible, so the code will not compile.	
·	
The program prints an error message and unconditional	
terminates	
What happens when you execute the following	
(erroneous) code:	
cout << stoi(42.5) << endl;	
3.3.(12.3)	
The double 42.5 is truncated to 42 and printed	
The code does not compile because the	
argument is the wrong type.	
An exception is thrown, which may be caught	
and subspace to an own, miles may be early in	
The program prints an error message and	
terminates since you cannot convert a double to	
an int	
No conversion takes place and the output	
stream is placed in a failed state.	
Stream is placed in a failed state.	
What is x?	3
vector <int> v{1, 2, 3};</int>	
auto x = *max_element(v.begin(), v.end());	
1	
1	
None of these	
a std::pair object	

Study

struct Rectangle { int length, width; } big, small; None of these are correct if (big == small) . . . if (big.length == width) . . . if (big != small) . . . if (big.length == small.width) . . . Sums the elements in a [1413] What does this loop do? int a[] = {6, 1, 9, 5, 1, 2, 3}; int x(0); for (auto e : a) x += e; cout << x << endl; Selects the smallest value in a Counts the elements in a Selects the largest value in a Has no effect Sums the elements in a What is true about an uninitialized pointer? Dereferencing it is undefined behavior It is set to the nullptr value None of these are true Dereferencing it will cause a program crash Dereferencing it is safe, but has no effect. Dereferencing it is undefined behavior The value for the variable c is stored: on the stack int a = 1; void f(int b) int c = 3; static int d = 4; } in the CPU machine registers on the heap in the static storage area on the stack The example does not provide enough information The value for the variable d is stored: in the static storage area int a = 1; void f(int b) { int c = 3; static int d = 4; } in the CPU machine registers on the heap in the static storage area on the stack The example does not provide enough information

<pre>void swap(int * x, int & y) { }</pre>	
 int a = 3, b = 7;	
None of these swap(a, &b); swap(a, b); swap(&a, b); swap(&a, b); swap(&a, &b);	
All of these are legal C++ statements; which of them uses indirection?	int x = *p;
int a = 3, b = 4;	
None of these use indirection. z *= a; int y = a * b; int x = *p; int *p = &b	
What is the correct prototype for the output operator? enum class Suit	ostream& operator<<(ostream& out, Suit suit);
{ HEARTS, SPADES, CLUBS, DIAMONDS };	
ostream& operator>>(ostream& out, Suit& suit); ostream& operator<<(ostream& out, Suit& suit); ostream& operator<<(ostream& out, Suit suit); ostream& operator<<(ostream& out, const Suit& suit);	
What is correct for # 3? (3 e) {	exception&
cout << e.4 () << endl; catch	
if what	
exception& None of these try	
while	
What happens when this code fragment runs?	n is set to 12
istringstream in("12"); int n; in >> n;	
It compiles, but fails to link It throws a runtime exception n is set to 12 None of these It sets an error state in in. It does not compile. PreviousNext	

midterm 3 cs150 Study __ block? inside a ___ None of these catch, try raise, except throw, catch try, catch if, else When using the STL function count, the third argument is: the value to count cend(v) cbegin(v) None of these a predicate function Given the following structure and variable definitions, which age data members are default initialized? empID struct Employee salary long empID; std::string lastName; double salary; int age; Employee bob; None of these salary empID lastName age [1426] What prints? 22 int a[] = {1, 3, 5, 7, 9}; int *p = a; cout << ++*p; cout << *p << endl; 13 12 None of these 22 33 Examine the following code (which is legal). What is the ostream& operator<<(ostream& out, const Time& m); correct prototype for an aggregate output operator? struct Time { int hours{0}, minutes{0}, seconds{0}; }; The value for the variable a is stored: in the static storage area int a = 1; void f(int b)

int c = 3; static int d = 4;

More Options

```
int x(100);
           cout << &x << endl;
           None of these
           The value stored at address 100
           The memory location where x is stored
           The value of x (100)
After writing data to an ostringstream object named os, you
                                                                          os.str()
can retrieve the string it contains by using:
None of these
to_string(os)
os.to_string()
os.str()
static_cast<string>(os);
Next
          What prints?
                                                                          five
          string s("hello");
          try {
          if (s.size() > 2) throw 42;
          if (islower(s.back())) throw s.back();
          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"; }</pre>
          catch (...) { cout << "five\n"; }
          one
          four
          Undefined
          five
          two
          three
What happens when this code fragment runs?cout <<
                                                                          stoi() returns 12
stoi("12") << endl;
It throws a runtime exception
It does not compile.
None of these
stoi() returns 12
It compiles, but fails to link
It sets an error state in cout.
Assume s1 and s2 are C++ string objects. Which of these calls
                                                                          None of these
template <typename T>
void addem(T a, U b)
cout << a << " + " << b << "->"
<< (a + b) << endl;
addem(s1, s2);
None of these
addem(3, 4)
```

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More Options

template <typename t=""> void addem(T a, T b) { cout << a << " + " << b << "->"</typename>	
When using the STL function count_if, the third argument is:	None of these
None of these the value to count cend(v) a predicate function cbegin(v)	
Examine the following definition. empID is a	data member
struct Employee { long empID; std::string lastName; double salary; int age; }; instance variable None of these data member field	
structure tag type-id	
Given the following structure and variable definitions which statements are legal?	payment.cents = 5; cout << payment.dollars;
<pre>struct Money { int dollars{0}; int cents{1}; }; Money payment; payment{1} = 5;</pre>	
payment{I} = 5; Money{I} = Money{0}; cout << Money.dollars; payment.cents = 5; cout << payment.dollars; None of them	
Which area of memory are global variables stored in? Static storage area Heap Stack Text	Static storage area

char ch;	
while (in.get(ch))	
{	
if (ch >= 'A' && ch <= 'Z')	
upper++;	
3	
Group of answer choices	
sentinel loop	
counter-controlled loop	
iterator or range loop	
primed loop	
inline test	
limit loop	
data loop	
loop-and-a-half	
A(n) is an occurrence of an undesirable situation that can	exception
be detected during program execution.	
bug	
exception	
misfire	
crash	
PreviousNext	
Treviousivent	
What has a second with the fall owing a section of and 2	
What happens with the following section of code?	Compiles, but always print "You entered 1"
cout << "Enter 1, 2 or 3: ";	
int n;	
cin >> n;	
#if 1	
cout << "You entered 1" << endl;	
#elif 2	
cout << "You entered 2" << endl;	
#elif 3	
cout << "You entered 3" << endl;	
#else	
cout << "Invalid value" << endl;	
#endif	
Compiles, but only prints "Invalid value"	
Does not compile	
Compiles, but always print "You entered 1"	
Compiles and prints the correct value entered by the user.	
PreviousNext	
Which of the following blocks is designed to catch any type	catch(){ }
of exception?	(-7)
Which expression returns the number of countries?	None of these
without expression returns the number of countries?	Notic Of these
string countries [] = {"Andorra" "Albania" }.	
string countries[] = {"Andorra", "Albania", };	
sizoot(countries) * sizoot(countries[0])	
sizeof(countries) * sizeof(countries[0])	
countries.length	
sizeof(countries)	
None of these	
len(countries)	

More Options

string countries[] = {"Andorra", "Albania", };	
sing of the combined	
sizeof(countries) len(countries)	
sizeof(countries) / sizeof(string)	
None of these	
sizeof(countries) *	
sizeof(countries[0])	
	<u>'</u>
Which expression returns the number of countries?	sizeof(countries) / sizeof(countries[0])
string countries[] = {"Andorra", "Albania", };	
1. (1:): ((1:) * .: ((1: [0])	
len(countries)sizeof(countries) * sizeof(countries[0]) sizeof(countries)	
None of these	
sizeof(countries) / sizeof(countries[0])	
3/2001(000HtH03) / 3/2001(000HtH03[0])	
Assume that p is a pointer to the first of 50 contiguous	p + 50;
integers stored in memory. What is the address of the first	
integer appearing after this sequence of integers?	
p + sizeof(int) * 50;	
None of these	
&p + 50;	
p + 50;	
sizeof(p) + 50;	
Which array definition produces {0, 1, 2}?	None of these
int SIZE = 3;	
int al[SIZE];	
int a2[3];	
int a3[3]{};	
int a4[] = {1, 2, 3};	
int a5[3] = {1, 2};	
al	
None of these	
a2	
a5	
a3	
	•
Which returns the last pixel on the first row of this image?	p[w - 1]
Pixel *p; // address of	
pixel dataint w, h; // width and height of image	
Name of these states and	
None of these are correct	
p + w - 1	
p[w - 1] p[w] - 1	
*p[w - 1]	

midterm 3 cs150 Study int SIZE = 3; int al[SIZE]; int a2[3]; int a3[3]{}; int a4[] = {1, 2, 3}; int $a5[3] = \{1, 2\};$ а3 al a5 a2 None of these **PreviousNext** Assume that pl is a pointer to an integer and p2 is a pointer p2 - p1; to a second integer. Both integers appear inside a large contiguous sequence in memory, with p2 storing a larger address. How many total integers are there in the slice between pl and p2? p1 - p2 + 1; None of these p2 - p1; p2 - p1 - 1; p1 - p2; The try block is followed by one or more ___ blocks. catch throw catch do finally A(n) _____ is a statement about a condition which must assertion be true when it is encountered in your code. precondition assertion postcondition exception PreviousNext Read and write characters to memory using streams Read and write characters to memory using streams ->sstream ->sstream Connect a disk file to an input or output stream. Connect a disk file to an input or output stream. ->fstream ->fstream

Use the predefined stream objects cin and cout ->iostream

Determine the category of a character

->cctype

Modify the way that memory is converted to characters on input or output

->iomanip

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struct Rectangle { int length, width; } big, little; cin >> big; double p = 2 * (length + width); None of these are correct cin >> little.width; cout << Rectangle.length;</pre> Assume vector<double> speed(5); Which line throws a speed.erase(speed.begin()); runtime error? speed.front() = 12; speed[0] = speed.back() None of these cout << speed[speed.size()];</pre> speed.erase(speed.begin()); What is printed when you run this code? The address value where n is stored int *n{nullptr}; cout << &n << endl; The address value 0 No compilation errors, but undefined behavior No output; compiler error. The address value where n is stored The word "nullptr" The variable buf is a pointer to a region of memory storing *p3 = 5; contiguous int values. (This is similar to your homework, where you had a region of memory storing unsigned char values.) The four lines shown here are legal. Which operation is legal? int *pl = buf; const int *p2 = buf; int * const p3 = buf; const int * p4 const = buf; *p2 = 3;p4++; *p4 = 7; p3++; *p3 = 5; int b[5]; Which line creates an array with 5 elements? cout << (*p).a << endl; Which of these lines correctly prints 3? struct S { int a = 3; double b = 2.5; **}**; S obj, *p = &obj; cout << p.a << endl; cout << (*p).a << endl; cout << *p.a << endl; cout << *(p.a) << endl; cout << *(p).a << endl;

```
vector<int> *vp(NULL);
double *pd = 0;
int *pi = nullptr;
Star *ps = NULL;
All are equally preferred.
         What is stored in the last element of nums?
                                                                       0
         int nums[3] = {1, 2};
         Syntax error in array declaration
         Undefined value
What happens when you execute the
(erroneous) line:
bool ok = 2 + 2 == 5;
A)The program prints an error message and the
program continues
B)An exception is thrown because 2 + 2 does not
equal 5
C)The code does not compile, since 2 + 2 is not
equal to 5
D)The program prints an error message and
terminates
E)Nothing happens. The variable ok is set to
false.
What happens when you execute the (erroneous) line:
                                                                        The function returns an error value and the program continues
auto x = sqrt(-1);
The code does not compile. You cannot take the square root
of a negative number.
The statement is skipped and the program continues
The function returns an error value and the program
continues
The program prints an error message and terminates
The function throws and exception. If not caught the
program terminates.
         What prints?
                                                                        two
         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 int& e) { cout << "two\n"; }
         catch (const string& e) { cout << "three\n"; }</pre>
         catch (exception& e) { cout << "four\n"; }</pre>
          catch (...) { cout << "five\n"; }
         one
         four
         Undefined
```

More Options

```
char ch;
in.get(ch);
while (ch != 'Q')
{
    pos++;
    in.get(ch);
}

sentinel loop
inline test
limit loop
data loop
primed loop
iterator or range loop
counter-controlled loop
loop-and-a-half
```