CH 09 Q U I Z

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Terms in this set (68)

A loop that reads data until some special value is found is called a:

Which of these is not a technique for implementing a sentinel loop?

the counter-controlled pattern

What Java and other OO languages call a subclass, C++ calls a	derived class
Stream arguments to a function should:	be as general as possible (istream and ostream)
Stream arguments to a function should always be passed:	by reference
The file temp.txt contains "Orange Coast College". What prints?	occ
<pre>ifstream in("temp.txt"); char c; while (in.get(c)) { if (isupper(c)) cout << toupper(c); }</pre>	
Create an input file stream object named in.	ifstream in;
Which line opens the file in.txt for reading?	ifstream in("in.txt");
Which line opens the file input.txt for reading?	ifstream in("input.txt");
Create an input file stream object named in and open the text file "tuba.txt", using a single statement.	ifstream in("tuba.txt");
Create an output file stream object named out.	ofstream out;
Which line opens the file out.txt for writing?	ofstream out; out.open("out.txt");

False

False

and at the end of the loop.

when the sentinel is found

the loop when the sentinel is found

In the primed loop pattern, you use Boolean flag to signal

In the primed loop pattern, you use a break statement to exit

CH 09 Q U I Z If an input stream's file is missing when you try to open it, its fail() member function returns false False If an output stream's file is missing when you try to open it, its

True

fail() member function returns false.

To use strings as a data stream source or sink, use the <sstream> header</sstream>	True
To use strings as a data stream source or sink, use the <stringstream> header</stringstream>	False
The C++ term for what is called a subclass in other languages is derived class	True
The C++ term for what is called a subclass in other languages is base class	False
A loop that reads data until some special value is found is called a sentinel loop.	True
A loop that reads data until some special value is found is called a data loop.	False
To read a line of text, you include the header file <string></string>	True
A token is a "chunk of meaningful data".	True
In the C++ stream hierarchy, the base class of the ifstream class is:	istream
In the C++ stream hierarchy, the base class of the ofstream class is:	ostream
In the C++ stream hierarchy, the base class of the ostream class is:	ios
In the C++ stream hierarchy, base class of the istream class is:	ios
In the C++ stream hierarchy, the base class of the stringstream class is:	iostream

In the C++ stream hierarchy, the base class of the fstream class is:	iostream

int n; in >> n; while (abs(n)) { out << n % 4 << endl; n /= 4; }

```
counter-controlled loop
    Which of the following loop patterns are used here?
    auto len = str.size();
    while (len) out << str.at(--len);
    Which of the following loop patterns are used here?
                                                                        iterator or range loop
    string s{"hello CS 150"};
    for (auto e : s)
    if (toupper(e))
    out.put('x');
    Which of the following loop patterns are used here?
                                                                        iterator or range loop
    string s{"hello CS 150"};
                                                                        loop-and-a-half
    for (auto e : s)
    if (toupper(e)) break;
    }
    Which of the following loop patterns are used here?
                                                                        counter-controlled loop
    string s{"Hello CS 150"};
                                                                        loop-and-a-half
    while (s.size())
                                                                        sentinel loop
    if (s.at(0) == 'C') break;
    s = s.substr(1);
    }
    cout << s << endl;
                                                                        if (in.opened()) {/ opened ok /}
After opening the input stream in, which of these cannot be
used to see if the file was successfully opened?
                                                                        illustrates raw character I/O
                      This loop:
                      char c;
                      while (in.get(c))
                      cout << c << endl;
                      This loop:
                                                                        illustrates line-based stream processing
                      char c;
                      while (c = in.get())
                      cout << c << endl;
```

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                     string str;
                     while (getline(in, str))
                     cout << str << endl;
                     }
                      This loop:
                                                                          illustrates token-based stream processing
                      string str;
                      while (in >> str)
                      cout << str << endl;
The file grades.txt contains lines of text that look like this:
                                                                          in >> name >> score;
Smith 94
Jones 75
Each line of text contains the student's name (a single word)
and an integer score. What is the legal way of reading one
student's information, given the following code?
string name;
int score;
ifstream in("grades.txt");
The file expenses.txt contains the line: Hotel, 3 nights. $
                                                                          3x1x750.25x
1,750.25. What prints?
ifstream in("expenses.txt");
char c;
while (in.get(c))
if (isdigit(c)) {
in.unget();
double n;
in >> n;
cout << n << 'x';
}
                                                                          3x1x750x25x
The file expenses.txt contains the line: Hotel, 3 nights. $
1,750.25. What prints?
ifstream in("expenses.txt");
char c;
while (in.get(c))
if (isdigit(c)) {
in.unget();
int n;
in >> n;
cout << n << 'x';
}
}
Assume that the file scores.txt does not exist. What happens?
                                                                          Creates a new file, scores.txt and writes two lines of text.
ofstream out("scores.txt");
out << "Peter" << " " << 20 << endl;
out << "John" << " " << 50 << endl;
```

CH 09 Q U I Z		Study 🗸	•••
 string s("Hello CS 150"); while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } cout << s << endl; 			
Which line represents the intentional bounds in this loop?	4		
 string s("Hello CS 150"); while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } cout << s << endl; 			
Which line advances the loop?	5		
 string s("Hello CS 150"); while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } cout << s << endl; 			