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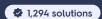
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A loop that reads data until some special value is found is called a:

sentinel loop

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 derived class be as general as possible (istream and ostream) Stream arguments to a function should: Stream arguments to a function should always be passed: by reference The file temp.txt contains "Orange Coast College". What OCC prints? 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 ifstream in("tuba.txt"); text file "tuba.txt", using a single statement. 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");

Create an output file stream object named out and open the text file "expenses.dat", using a single statement.	ofstream out("expenses.dat");
Use the output stream object named out to create the text file on disk named "totals.txt".	out.open("totals.txt");
Establish an association between the input stream object named in, and the text file on disk named "pets.txt".	in.open("pets.txt");
Which line reads a single word from the istream named in into the string variable word?	None of these
word = in.next(); in.get(word); getline(in, word); in << word; None of these	
The file temp.txt contains "If I saw an Aardvark, I would scream!". What prints?	6
ifstream in("temp.txt"); char c; int i = 0; while (in.get(c))	
{ if (tolower(c) == 'a') i++; } cout << i << endl;	
The return value of the getline() function is an input stream object	True
The return value of the getline() function is a string object.	False
When writing a function with stream parameters, always use the most general type of stream that meets the specification	True
When writing a function with stream parameters, always use the most specific type of stream that meets the specification	False
The cout object is an instance of the ostream class.	True
The cout object is an instance of the ofstream class	False
A loop that reads data until the input stream signals that it is done is called a data loop	True
A loop that reads data until the input stream signals that it is done is called a sentinel loop	False
In the primed loop pattern, you read data before the loop and at the end of the loop.	True
In the primed loop pattern, you use Boolean flag to signal when the sentinel is found	False
In the primed loop pattern, you use a break statement to exit the loop when the sentinel is found	False

The getline() function is a non-member function in the string library	True
The getline() function is a member function in the string class	False
The getline() function is a member function in the istream	
class.	False
To use a disk file as a data stream source or sink, use the <fstream> header</fstream>	True
To use a disk file as a data stream source or sink, use the <ifstream> header</ifstream>	False
To use a disk file as a data stream source or sink, use the <ofstream> header</ofstream>	False
Unformatted I/O means that you read and write data character-by-character	True
Unformatted I/O means that you read and write data line-by- line	False
Formatted I/O means that you read and write data token-by- token	True
Formatted I/O means that you read and write data line-by- line	False
The C++ term for what is called a superclass in other languages is base class	True
The C++ term for what is called a superclass in other languages is derived class	False
The cin object is an instance of the istream class	True
The cin object is an instance of the ifstream class	False
Stream parameters should always be passed to functions by reference	True
Stream parameters should always be passed to functions by const reference	False
In the flag-controlled-pattern, you use Boolean variable to signal when the sentinel is found	True
In the flag-controlled-pattern, you use a break statement to exit the loop when the sentinel is found.	False
In the flag-controlled-pattern, you read data before the loop and at the end of the loop	False
In the loop-and-a-half, you use a break statement to exit the loop when the sentinel is found	True
In the loop-and-a-half, you use Boolean variable to signal when the sentinel is found	False
In the loop-and-a-half pattern, you read data before the loop and at the end of the loop.	False

If an input stream's file is missing when you try to open it, its fail() member function returns true	True
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 fail() member function returns false.	True
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

Read and write characters to memory using streams	sstream
Connect a disk file to an input or output stream	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
Which fragment completes this code segment?	out.str()
string fmt(double n, int decimals)	
{ ostringstream out;	
out << fixed << setprecision(decimals); out << n;	
return; }	
After writing data to an ostringstream object named os, you	os.str()
can retrieve the string it contains by using:	
What does this code do?	Counts the number of characters in the file
ifstream in("temp.txt");	
char x; int i{0};	
while (in.get(x)) i++; cout << i << endl;	
What does this code do?	Counts the number of lines in the file
ifstream in("temp.txt");	
string x;	
int i{0}; while (getline(in, x)) i++;	
cout << i << endl;	
What does this code do?	Counts the number of words in the file
ifstream in("temp.txt");	
string x; int i{0};	
while (in >> x) i++; cout << i << endl;	
Which of the following loop patterns are used here?	primed loop sentinel loop
size_t pos = 0; char ch;	
in.get(ch);	
while (ch != 'Q') {	
pos++; in.get(ch);	
}	
Which of the following loop patterns are used here?	inline test data loop
int upper = 0; char ch;	
cnar cn; while (in.get(ch))	
{ if (ch >= 'A' && ch <= 'Z')	
upper++; }	

```
Which of the following loop patterns are used here?
                                                                        limit loop
    int 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;
After opening the input stream in, which of these cannot be
                                                                        if (in.opened()) {/ opened ok /}
used to see if the file was successfully opened?
                      This loop:
                                                                        illustrates raw character I/O
                      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;
```

```
This loop:
                                                                          illustrates line-based stream processing
                     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;
cout << n << 'x';
The file expenses.txt contains the line: Hotel, 3 nights. $
                                                                          3x1x750x25x
1,750.25. What prints?
ifstream in("expenses.txt");
char c;
while (in.get(c))
if (isdigit(c)) {
in.unget();
int 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;
```

Which line represents the necessary bounds in this loop?	2
1. string s("Hello CS 150");	
2. while (s.size()) 3. {	
4. if (s.at(0) == 'C') break;	
5. s = s.substr(1);	
6. } 7. cout << s << endl;	
Which line represents the intentional bounds in this loop?	4
1. string s("Hello CS 150");	
2. while (s.size())	
3. { 4. if (s.at(0) == 'C') break;	
5. s = s.substr(1);	
6. }	
7. cout << s << endl;	
Which line advances the loop?	5
1. string s("Hello CS 150");	
2. while (s.size())	
2. while (s.size()) 3. {	
2. while (s.size())	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } 	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); 	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } 	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } 	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } 	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } 	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } 	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } 	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } 	
 while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } 	