

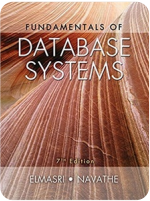
CH 08 Q U I Z

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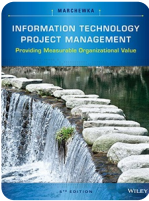
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Terms in this set (42)

The input stream member function for reading a character at a time is named:	get()
Assume you have a char variable named ch. How do you read one character from input?	cin.get(ch);
The expression cin.get(ch) does which of these?	<div>reads the next character in input and stores it in ch</div> <div>returns a reference to cin that can be tested</div>
Assume you have a char variable named ch. How do you "unread" a character already read?	cin.putback(ch);
Assume you have a char variable named ch. How do you write one character to output?	cout.put(ch);
<div>Complete the following code in the echo filter program.</div> <div>char ch; while (cin.get(ch)) _____;</div>	cout.put(ch)
<div>Complete the following code in the lower filter program.</div> <div>char ch; while (cin.get(ch)) cout.put(_____);</div>	tolower(ch)
<div>Complete the following code in the upper filter program.</div> <div>char ch; while (cin.get(ch)) cout.put(_____);</div>	toupper(ch)
<div>Complete the following code in the echo filter program.</div> <div>char ch; while (_____) cout.put(ch);</div>	cin.get(ch)

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char ch1; auto ch2 = cin.get(ch1);			
Assume the user types "brown cow" when this code runs. What prints? int n; if (cin >> n) cout << "X\n"; else cout << "Y\n";	Y		
Assume the user types "brown cow" when this code runs. What is stored in ch2? char ch1; auto ch2 = cin.get(ch1);	cin		
Assume the user types "brown cow" when this code runs. What prints? char c; cout.put(cin.get(c));	Does not compile		
Assume the user types "brown cow" when this code runs. What prints? char c; cout << cin.get(c) << endl;	Does not compile		
When using cin >> ch; to read a character, leading whitespace is skipped.	True		
When using cin >> ch; to read a character, leading whitespace is not skipped.	False		
Calling cout.put(65) prints the character 'A' on output	True		
Calling cout.put(65) prints the number 65 on output	False		
Calling cout.put(65) is illegal. Your code will not compile.	False		
Calling cout.put(65.35) is illegal. Your code will not compile	False		
When using the get() member function to read a character, leading whitespace is not skipped	True		
When using the get() member function to read a character, leading whitespace is skipped.	False		
A process filter does something to the characters it encounters	True		
A process filter learns something about the stream by examining characters	False		
The expression cin.get(ch) returns a reference to the input stream	True		
The expression cin.get(ch) returns the next character from input	False		

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Study

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A state filter does something to the characters it encounters	False
Counting the number of words in input by counting word transitions is an example of a state filter	True
Counting the number of words in input by counting word transitions is an example of a process filter.	False
You can test if an I/O operation succeeded by explicitly calling the stream's fail() member function	True
To test if an I/O operation succeeded you must explicitly call the stream's fail() member function	False

Calling cout.put(c) converts its argument, c, to a character.	True
Calling cout.put("A") is illegal. Your code will not compile.	True
When a stream is converted to a Boolean condition, its fail() member function is implicitly called	True
When using the get() member function, a stream will fail only if there are no characters left in the input stream.	True
Programs that process streams of characters are called text _____.	filters
Which of these are not process filters?	<div>compress input by turning off echo when reading blank spaces</div> <div>print one sentence per line</div> <div>counting word transitions</div>
Which of these are not state filters?	<div>translating data from one form to another</div> <div>search for a particular value in a stream</div> <div>copy a file</div>
Assume you have a char variable named ch. How do you look ahead before reading a character?	cin.peek();
Assume you have a char variable named ch. How do you look ahead before reading a character?	<div>cin.get(ch);</div> <div>cin.unget(ch);</div> <div>cin.putback(ch);</div> <div>cin.seek(ch);</div> <div>cin.peek(ch);</div> <div>-- > None of these</div>
2 Q U E S T I O N S	
Which line runs the dwk program and gets its input from a file named y.data?	./dwc < y.data

Which line runs the dmm program and adds its output to a file named x.data?	<code>./dmm >> x.data</code>
Which line runs the dd program and sends its errors to file named z.data?	<code>./dd 2> z.data</code>
Which line runs a.out getting its input from in.txt and appending its output to the file out.txt?	<code>./a.out > in.txt >> out.txt</code>
Which line runs a.out getting its input from in.txt and sending its output to the new file out.txt?	<code>./a.out > out.txt < in.txt</code>
<div>Append output to a file named z</div> <div>Discard both output and errors</div> <div>Write output to a new file named z</div> <div>Read the input from the file named z</div> <div>Write errors to a new file named z</div> <div>Send the output to the input of the program named z</div>	<div>X</div> <div><code>rm x > /dev/null/2>&1</code></div> <div>X</div> <div><code>cat < z</code></div> <div><code>cat x 2>z</code></div> <div><code>date z</code></div>
Which line runs the dom program and sends both output and errors to file named v.data?	<code>./dom > v.data 2>&1</code>
<div>Has a single char& parameter</div> <div>Returns the last character read to the input stream</div> <div>Examines, but does not read the next character in an input stream</div> <div>Replaces the last character read with any character</div> <div>Called implicitly when an input statement is used as a test condition.</div> <div>A predicate function</div> <div>Converts its value argument to a character and sends it to output.</div>	<div><code>get()</code></div> <div><code>unget()</code></div> <div><code>peek()</code></div> <div><code>putback()</code></div> <div><code>fail()</code></div> <div><code>isalpha()</code></div> <div><code>put()</code></div>
Which line runs a.out getting its input from in.txt and sending its output to the file out.txt, and its errors to the file err.txt?	<code>./a.out < in.txt > out.txt 2> err.txt</code>

Indefinite limit loop that uses successive approximations

```
while(abs(g1-g2) >= EPSILON) {...}
```

Counter-controlled symmetric loop for producing a sequence of data

```
for (int i = 12; i <= 19; i++) {...}
```

Indefinite data loop that uses raw input

```
while(cin.get(ch)) {...}
```

Counter-controlled asymmetric loop for processing characters

```
for (size_t i = 0, len = s.size(); i < len; i++) {...}
```

Iterator loop that may change its container

```
for(auto&e : col) {...}
```

Iterator loop that cannot change its container

```
for(auto e: col) {...}
```

Counter-controlled loop for processing substrings

```
for(size_t i=4, slen =4; len = s.size(); i <len; i++) {...}
```

Indefinite data loop that uses formatted input

```
while(cin >> n)
```