getline vs extraction (>>)

	Objectives	See the impact of differences in how getline and extraction (>>) treat whitespce.	
		Understand how to mitigate issues that may arise in using extraction before getline.	
	Recall that whitespace can be spaces, tabs, end of lines, etc.		
1	Download File:	search.cpp	
2	Compile program. Note: If using Visual studio, you might need to add `system("pause")`		
3	Run and put in "`Howdy Miss Reveille`" for the input.		
	What is output?	`Searching for: Howdy`	
	Explanation:	`extraction (>>)`	Reads from the stream/buffer until it encounters "whitespace" and then stops
4	Uncomment "`getline(cin, searchTerms);`" and comment out "`cin >> searchTerms;`"		
5	Run and put in "`Howdy Miss Reveille`" for the input.		
	What is output?	`Searching for: Howdy Miss Reveille`	
	Explanation:	`getline`	Reads from the stream/buffer (including spaces) until it encounters an end of line and then stops
6	Uncomment the code block surrounded by `/*` and `*/`. After that two lines should still be commented out.		

7	Compile and run using the following input if prompted. Inputs:
	    `Enter Maximum Price: 75`
	    `Enter Search Terms: Howdy Miss Reveille`		

	What is output?	`Searching for:`	
	Explanation:	`extraction (>>)`	Leaves "whitespace" in stream/buffer after stopping
		`getline`	Reads from the stream/buffer until it encounters an end of line (since the first item is an end of line it input an empty string)
8	Try fixing by ucommenting "`cin.clear();`".		

	Compile and run using the following input if prompted. Inputs:
	    `Enter Maximum Price: 75`
	    `Enter Search Terms: Howdy Miss Reveille`		

		Searching for:	
	What is output?	**Searching for:**	
	Explanation:	**clear**	Set stream state to "Good" and did not modify the buffer (so no impact on what was input/output in this situation)
9	Try fixing by uncommenting "cin.ignore (numeric_limits::max(), '\n');"		

	Compile and run using the following input if prompted. Inputs:
	    Enter Maximum Price: 75
	    Enter Search Terms: Howdy Miss Reveille		

	What is output?	**Searching for: Howdy Miss Reveille**	
	Explanation:	**ignore**	Removes data from the stream/buffer until it encounters the designated character (including that character) OR removes the indicated number of characters
10	Comment out "cin.clear();".		

	Compile and run using the following input if prompted. Inputs:
	    Enter Maximum Price: 75
	    Enter Search Terms: Howdy Miss Reveille		

	What is output?	Searching for: Howdy Miss Reveille	
	Explanation:	**clear**	Set stream state to "Good" and did not modify the buffer (so no impact on what was input/output in this situation)
11	**Go to "File" menu and chose "Download as" a PDF and submit to Gradescope.**		