Problem FC-2 (3 Parts)

Branches, Jumps, Loops

Part A Write code that branches to Label when \$1 is greater than 100. Modify only \$2.

label	instruction	comment

Part B Complete this subroutine that searches for the maximum value in a 100 element array (base address = **Array**). Return the result in \$3. Use \$1, \$2, \$3, and \$4 as required.

Label	Instruction	Comment
Max:	addi \$1, \$0, 396	<pre># init array offset</pre>
	lw \$3, Array(\$1)	# load initial max
Loop:		# next element
		# load element
		# compare to Max
		# if New <= Max, skip
		# else set new Max
Skip:		# if not last, loop
	jr \$31	# return to caller

Part C State the three primary differences between MIPS branches and jumps.

	branches	jumps
1:		
2:		
3:		