CMPE-250 Laboratory Exercise 3
Memory, Conditional Branching and Debugging Tools

By submitting this report, I attest that its contents are wholly my individual writing about this exercise and that they reflect the submitted code. I further acknowledge that permitted collaboration for this exercise consists only of discussions of concepts with course staff and fellow students; however, other than code provided by the instructor for this exercise, all code was developed by me.

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Submitted 18 September 2018

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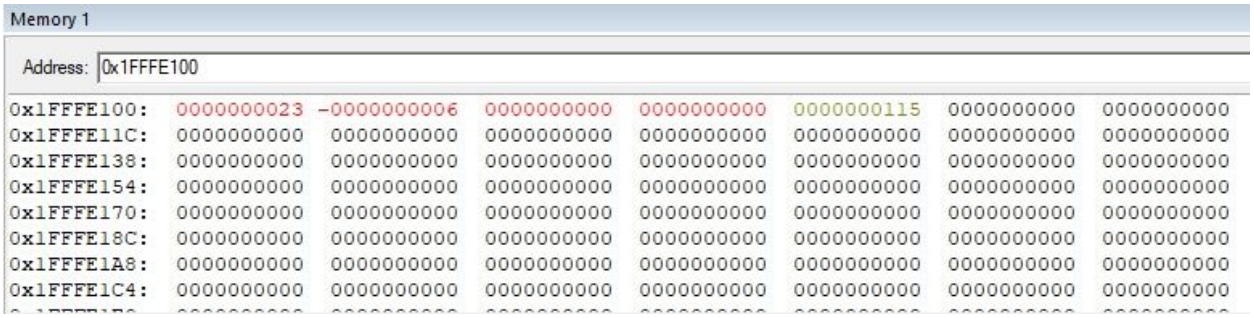
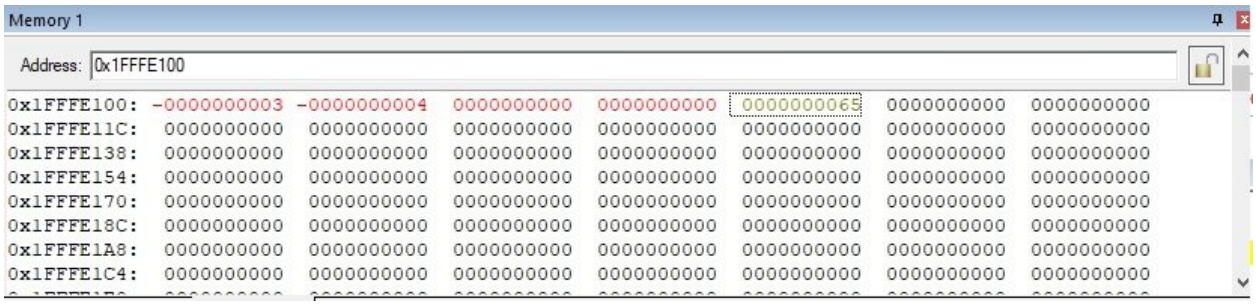
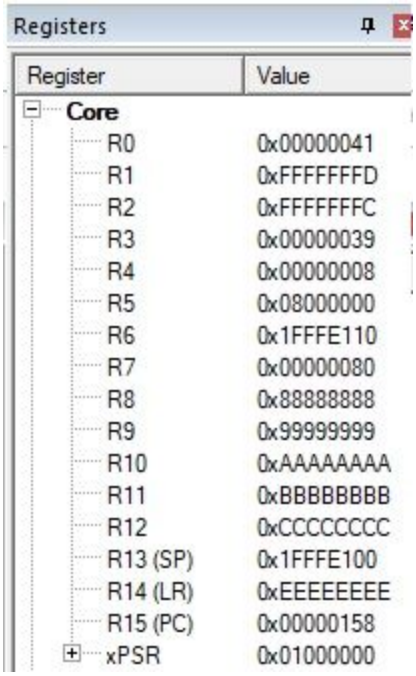
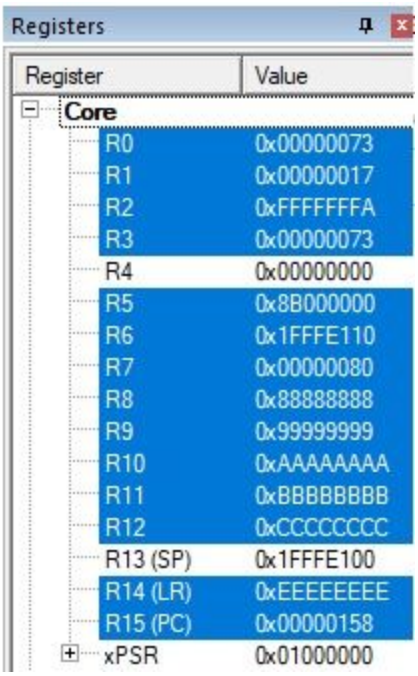
SCREENSHOTS









CALCULATIONS FOR PRELAB

F = 2P - 3Q + 51
G = 5P - 4Q + 7
Result = F + G

Input Set 1 P=23, Q= -6
F = 0002*0017 - 0003*FFFA + 0033 = 0073

G = 0005*0017 - 0004*FFFA + 0007 = 0000 **OVERFLOW**
Result = 0073

Input Set 2 P= -3, Q= -4
F = 0002*FFFD - 0003*FFFC + 0033 = 0039
G = 0005*FFFD - 0004*FFFC + 0007 = 0008
Result = 0039 + 0008 = 0041

QUESTION

Could you reduce or eliminate overflow by changing the order of operation within the expressions (F, G, and/or Result)? Explain why or why not.

- No because the result of input set 1 for the equation of G equals a number that is always going to be higher than 128.