

Assignment 2 (80 points)

A. Questions

For a processor with 32 data lines, the following pseudo-code has been executed one line at a time. Fill out the memory with the resultant contents in hexadecimal format.

MEMORY[0x00102000] := 155<sub>d</sub>

MEMORY[0x00102004] := -10<sub>d</sub>

MEMORY[0x0010200A] := 2A2B2C2D<sub>h</sub>

MEMORY[0x00102010] := -1<sub>d</sub>

0x00102014	
0x00102013	
0x00102012	
0x00102011	
0x00102010	
0x0010200F	
0x0010200E	
0x0010200D	
0x0010200C	
0x0010200B	
0x0010200A	
0x00102009	
0x00102008	
0x00102007	
0x00102006	
0x00102005	
0x00102004	
0x00102003	
0x00102002	
0x00102001	
0x00102000	

B. Score Distribution and Scoring Rubric: Total points = 80

	Memory Contents
80 pts	All the contents of the affected memory addresses are correct <u>with</u> clear explanation for each of the 4 instruction lines.
60 pts	80% or more of the contents of the affected memory addresses are correct <u>with</u> clear explanation for each of the 4 instruction lines.
40 pts	70% or more of the contents of the affected memory addresses are correct <u>with</u> clear explanation for each of the 4 instruction lines.
20 pts	50% or more of the contents of the affected memory addresses are correct <u>with</u> clear explanation for each of the 4 instruction lines.
10 pts	Correct or partially correct with the final answer only without explanation
0 pt	Incorrect with the final answer only

C. Submission: Work on a paper or on word processing software or drawing application, and send me an electronic copy (file) of your work via email or Slack. Name your file as follows: **416Assign2\_LastName.xxx** (xxx for file type, docx, doc, pdf, png, etc)

D. Submission due: 8:00pm Wednesday September 22, 2021

E. Extension Request of Submission: Usually granted upon request