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CIS 314

Homework 5

Problem 5-2

A picture containing chart

Description automatically generated

Problem 5-3

|  |  |
| --- | --- |
| Stage | iaddq V, rB #instruction |
| Fetch | icode:ifun 🡨 M1[PC] #instruction code + function  rA:rB 🡨 M1[PC + 1] #registers  valC 🡨 M8[PC + 2] #immidiate value to add  valP 🡨 PC +10 #pointer |
| Decode | valB 🡨 R[rB] #get value from register |
| Execute | valE 🡨 valC + valB #add values and store temporarily store |
| Memory |  |
| Write back | R[rB] 🡨 valE #store back in register |
| PC update | PC 🡨 valP #update counter |