Homework #3:

Due: Apr. 19 (to be collected in class)

Name:(   )   SNU_ID:(   )

We will grade your answers based on your understanding rather than the correctness of your answers. Therefore, we will give you credits on wrong answers as long as your story makes a good sense. Please try to do your best and just explain your answers. <u>We would not give you credits unless we see reasonable (or required) explanations for your answers.</u>

Please answer following questions.

Q1) Exercise 4.9 (in P&H 5E)   // data dependence hazard

Q2) Exercise 4.10 (in P&H 5E)   // structural hazard, control hazard

Q3) Exercise 4.12 (in P&H 5E)   // complexity of forwarding

Q4) Exercise 4.15 (in P&H 5E)   // Branch predictor

Q5) Exercise 4.16 (in P&H 5E)   // Branch predictor accuracy

Q6) Exercise 4.17 (in P&H 5E)   // Exception

Q7) Exercise 4.18 (in P&H 5E)   // Superscalar CPU