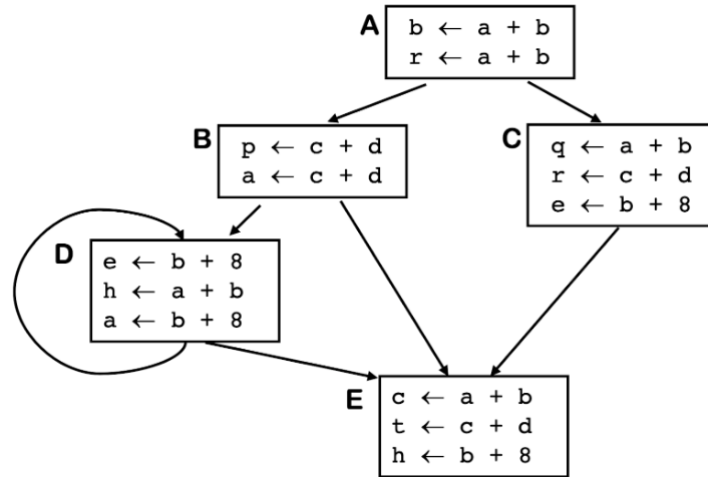


### Assignment 3

(Due: Feb 5 23:59)

Ivan Neto

**Problem 1:** (i) Apply available expression analysis to the following CFG to find the AvailIn set for each BB ;  
(ii) Based on the results of available expression analysis, use GCSE (Global Common Subexpression Elimination) to find out the redundant computations and remove them.



Block	A	B	C	D	E
Block	A	B	C	D	E

*Tips: to apply GCSE, you can first find the redundant computations (expressions), then create the global hash names only for those expressions, and finally, transform the CFG to remove the redundancies.*