CS 201, Winter- Assignment 4

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Block Dominator IDan

Block Dominator Tree

Blocks	Dominator	IDom	Dominator Tree
Bi	B		BI
B2	B1, B2	Bi	
BB	B1, B3	Bi	B2 B3 B4 B6 B7
By	B1, B4	BI	
B 5	B3, B3, B1	B3	B5
B6	B6, B1	BI	
Bi	B7, B1	BI	

There are three joining of modes - By, B6 & B7

For B6

Predecesion of B6 are - B4, B5

$$DF(B4) = B6$$
 $DF(B5) = B6$
 $DF(B3) = B6$

DI

For B7

Predecesor of B7 are
$$-B_2$$
, B6

$$DF(B_2) = B7$$

$$DF(B_6) = B7$$

Therefore Dominance Frontiers of all the blocks are $-B_1$

$$DF(B_1) = \Phi$$

$$DF(B_2) = B_4$$

$$DF(B_2) = B_4$$

$$DF(B_3) = B_4$$

$$DF(B_4) = B_6$$

$$DF(B_4) = B_6$$