Dominator Analysis

Domain: Set of all nodes (basic blocks)

Direction: Forward { out[b] = fb(in[b])

Meet
Operator: \(\) \(\) \(\) \(\) in[b] = \(\) out[p]

Pepred(b)

Transfer : In general $f_b(x) = Gen[b] \cup (x \setminus Kill[b])$

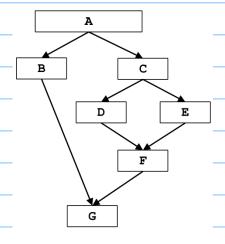
In this case we have Gen[b] = {b} and Kill[b] = Ø

therefore $f_b(x) = x \cup \{b\}$

Condition out[entry] = {entry}

Points

out[b] = U



-		Iteration 1		Iteration 2
	b	IN[b]	OUT[b]	
	Α		А	Unchanged
	В	Α	A,B	
	С	Α	A,C	
	D	A,C	A,C,D	
	Е	A,C	A,C,D A,C,E A,C,F	
	F	A,C	A,C,F	
	G	А		