





















Asymptotic Performance		
	ertices, m edges, (2) simp	
Operations (1) II V	Adjacency List	Adjacency Matrix
Space	O(n+m)	$O(n^2)$
incidentEdges(v)	$O(\deg(v))$	O(n)
areAdjacent(v, w)	$O(\min(\deg(v), \deg(w)))$	O (1)
insertVertex(v)	O (1)	$O(n^2)$
insertEdge(e)	O (1)	O (1)
removeVertex(v)	$O(\deg(v))$	$O(n^2)$
removeEdge(e)	O (1)	O (1)