Algorithm 3: $QUBE(MUC_U)$		
$input : MUC_U$ - Minimum Union Cycle that updated		
		vertices belong to
$\mathbf{output}: C[v_i]$ - Updated Betweenness Centrality Array		
begin		
2	Let	SP be the set of all pair shortest paths in MUC_U ;
3	Let $C[v_i]$ be an empty array, $v_i \in MUC_U$;	
1 5	$SP, C[v_i] \leftarrow \text{Betweenness}()$;	
5	for each shortest path $\langle v_a, \dots, v_b \rangle$ in SP do	
3		if v_a is a connecting vertex then
7		$G_a := Subgraph$ connected by a connection
		vertex v_a ;