$$\begin{array}{c|c} \mathbf{8} & & & & \\ \mathbf{9} & & & & \\ \mathbf{0} & & & \\ C[v_i] := C[v_i] + \frac{|V_{G_a}|}{|SP(v_a,v_b)|} \;; \\ \mathbf{if} \; v_b \; is \; also \; a \; connecting \; vertex \; \mathbf{then} \\ & & & \\ C_b := \text{Subgraph connected by a} \\ & & & \\ \mathbf{0} & & \\ \mathbf$$