

$$distance := \frac{1}{weight}$$

$$D_{direct}(A \rightarrow B) = \frac{1}{2} = 0.50$$

$$D_{shortest}(A \rightarrow C \rightarrow C) = \frac{1}{5} + \frac{1}{20} = 0.25$$

$$\text{Indirect path factor} = \frac{D_{direct}}{D_{shortest}} = \frac{0.50}{0.25} = 2.0$$