Exercise Set 7

1.)

\[ \begin{align*}
A & \quad B \\
50 & \quad 50 \\
C & \quad 51 & \quad 60
\end{align*} \]

\[ \Rightarrow \text{Count-to-Infinity problem} \]

\[ \begin{align*}
A & \quad B \\
50 & \quad 50 \\
C & \quad 51
\end{align*} \]

2.)

\[ \begin{align*}
A & \quad C \\
B & \quad 50 & \quad 60 \\
C & \quad 50 & \quad 52
\end{align*} \]
=) count-to-infinity!

3.) | OSPF (link state) | RIP (distance) |
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Scaleability | hierarchical | no hierarchical routing |
| routing | scales worse |
Robustness | adjust faster | count-to-infinity |
Convergence | faster (hierarchical) | slower (not hierarchical) |
Route selection | load balancing when routes with same cost | always the same path |
Loop Avoidance | no loops | creates loops