Assigning Vector Timestamps

- Incrementing vector clocks
1. On an instruction or send event at process i, it increments only its ith element of its vector clock
2. Each message carries the send-event's vector timestamp $V_{message}[1...N]$
3. On receiving a message at process i:

$$V_i[i] = V_i[i] + 1$$

$$V_i[j] = \max(V_{message}[j], V_i[j]) \text{ for } j \neq i$$