

3. [10 pts.] Suppose you have an associative memory consisting of the below synaptic weights, cued by a state with the below activation pattern. What will be the resulting target state?

target	synaptic weights								cue
	.25	.0	.25	.0	.25	.0	.25	.0	.0
	.25	.0	.25	.0	.25	.0	.25	.0	.50
	.0	.25	.0	.25	.0	.25	.0	.25	.0
	.0	.25	.0	.25	.0	.25	.0	.25	.50
	.25	.25	.25	.25	.25	.25	.25	.25	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.50
	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.25	.25	.25	.25	.25	.25	.25	.25	.50

4. [10 pts.] Now suppose you have the same associative memory consisting of the below synaptic weights, cued by the same state, but with parts of its activation pattern missing, as below. What will be the resulting target state?

target	synaptic weights								cue
	.25	.0	.25	.0	.25	.0	.25	.0	.0
	.25	.0	.25	.0	.25	.0	.25	.0	.0
	.0	.25	.0	.25	.0	.25	.0	.25	.0
	.0	.25	.0	.25	.0	.25	.0	.25	.0
	.25	.25	.25	.25	.25	.25	.25	.25	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.50
	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.25	.25	.25	.25	.25	.25	.25	.25	.50