COMP9444 Neural Networks and Deep Learning Term 3, 2020

Exercises 8: Hopfield Networks

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1.

- a. Compute the weight matrix for a Hopfield network with the two memory vectors [1, -1, 1, -1, 1] and [1, 1, 1, -1, -1] stored in it.
- b. Confirm that both these vectors are stable states of this network.
- 2. Consider the following weight matrix W:

https://powcoder.com
-0.2 0.0 -0.2 0.2 0.2

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a. Starting in the state of the

b. Starting in the stipes state OW, C, O C Employ Mexico and next state using synchronous updates.

Make sure you attempt the destinistions.