1. Load data from files
2. Generate dataloader from sequential data
3. network = CasCor()
4. **For** epoch **in** #\_of\_epochs:
5. **For** batch\_index, data, labels **in** dataloader:
6. forward results = forward(data)
7. Optimize on forward results and labels
8. Backpropagation
9. **If** loss has no improvement and conditions\*:
10. add new neuron
11. optimize the correlation on new hidden neuron
12. freeze the weight of the new hidden neuron
13. **END**