Homework 4 Report

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# Question 1

## q1\_cheetah\_n500\_arch1x32

Chart, diagram

Description automatically generated

## q1\_cheetah\_n5\_arch2x250

Chart, diagram

Description automatically generated

## q1\_cheetah\_n500\_arch2x250

Chart, line chart

Description automatically generated

The best performing model uses both the highest amount of iterations as well as the deepest architecture. This is likely because a great deal of representation capacity is required to model the dynamics well.

# Question 2

Chart, scatter chart

Description automatically generatedChart, scatter chart

Description automatically generated

# Question 3

Chart, line chart

Description automatically generated

# Question 4

## Horizon

Chart, line chart

Description automatically generated

Longer horizon leads to slightly better performance

## Number of Candidate Action Sequences

Chart, line chart

Description automatically generated

More candidate action sequences results in better performance early on

## Number of Ensembles

Chart, line chart

Description automatically generated

A higher number of ensembles slightly stabilizes learning

# Question 5

Chart, line chart

Description automatically generated