

BFS for Mission Complete

Total States: 65

(Location: battery

Sample Extracted?: True

Holding Sample?: False

Charged? True, 'move_to_battery')

BFS for moveToSample

Total States: 4

(Location: sample

Sample Extracted?: False

Holding Sample?: False

Charged? False, 'move_to_sample')

BFS for removeSample

Total States: 47

(Location: sample

Sample Extracted?: True

Holding Sample?: True

Charged? False, 'pick_up_sample')

BFS for returnToCharger

Total States: 8

(Location: battery

Sample Extracted?: False

Holding Sample?: False

Charged? False, 'move_to_battery')

A* for Question 3:

Number of States: 32

UCS for Question 3:

Number of States: 32