

BLG435E
ARTIFICIAL I TELLIGENCE

REPORT
ASSIGNMENT 1

BEHLÜL GÜLMEZ
150140113

Q1-

I chose "Activity recognition and anomaly detection software agent in an airport" for question 1.

Environment: Partially observable, sequential, stochastic, dynamic, continuous, multi agents

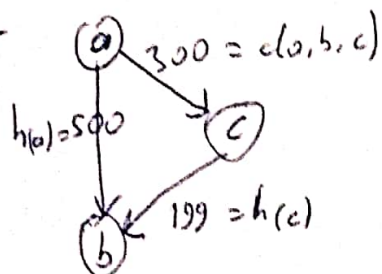
Performance Measure: Early detection for dangerous activities.
More safety and security in airport.

Sensors: Detectors, microphones, cameras,...

Actuators: Alarms,...

Model-based reflex agent is which I chose because it is partially observable and depends on the percent history.

Q2-



$$h(a) \leq h(a')$$

$$h(a) \geq 0 \text{ and } h(a) = 0$$

Admissible

$$h(a) > c(a,b,c) + h(c)$$

$$500 > 300 + 199$$

$$500 > 499$$

Inconsistent

Q3-

I modified Node class and changed `seq = ""` to `seq = []`. My Bfs and Dfs algorithms search for an apple and when found it moves to apple. After that clear everything and start to search again from where it moves before.