1. Give 5 real-world examples of simple reflex agents (SRA)

Vacuum-cleaner, automatic fire alarm, restroom automatic hand dryer, automatic hand soap dispenser, automatic flushing toilet seat, smart light bulb, elevator

Automatic door

1. Give one advantage of a SRA over a more sophisticated agent

It ‘s not required to have memory, simplicity, convenient for small spaces, cheap

1. Give one disadvantage of a SRA over a more sophisticated agent

It’s not flexible enough, does not learn from the past / failure, not suitable for complex tasks, no optimization

1. In a maze what are the full set of (directional) actions that an SRA can execute?

Four

1. How does an agent with memory beyond the current state exploit knowledge of future states?

Choose the set of actions that maximizes the utilities