Quiz 03: Uninformed Search Revision

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Group *

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Q1: The agent knows exactly which state it will be in; a solution is a sequence. Which problem type is it? *

- (●) Single-state problem
- ( ) Sensorless problem
- ( ) Contingency problem
- ( ) Exploration problem

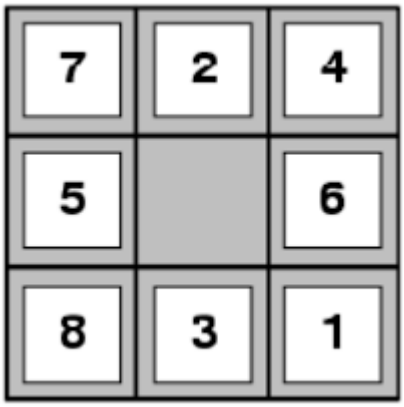
Q2: The agent may have no idea where it is; a solution is a sequence. Which problem type is it? *

- ○ Single-state problem
- ◉ Sensorless problem
- ○ Contingency problem
- ○ Exploration problem

Q3: Which is **NOT** a property of Single-state problems? *

- ○ Initial state; Goal state
- ○ Actions
- ○ Path cost
- ◉ Predecessor function

Q4: Given an 8-puzzle below. Each state is one way to arrange numbers. How many states are there? *

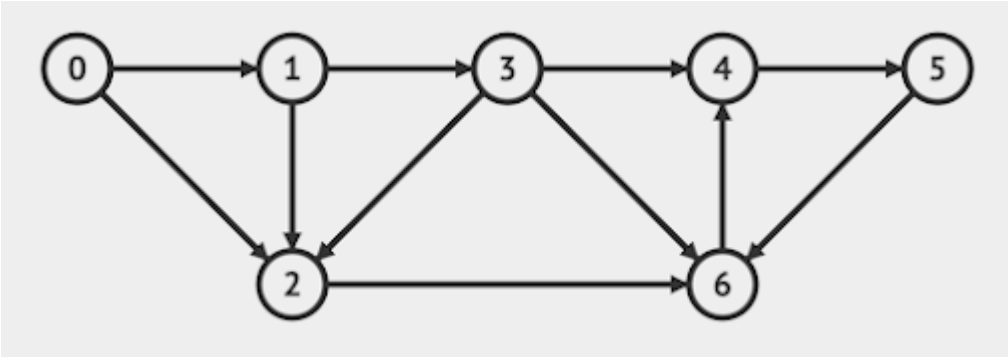


- ○ 8!
- ◉ 9!
- ○ 2^8
- ○ 2^9

Q5: Which is **NOT** a standard to evaluate a search strategy? *

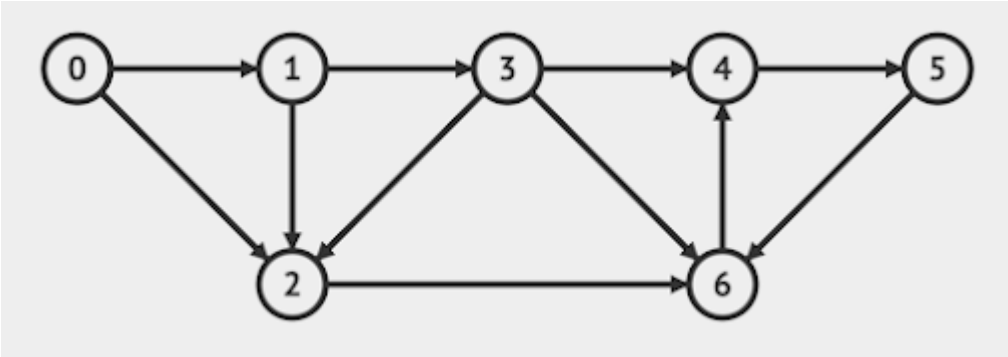
- ○ Completeness
- ○ Time/Space Complexity
- ◉ Countability
- ○ Optimality

Q6: Given a graph below. Using **BFS** (graph search) to find the path from 0 to 5. What is the solution? (*Handle the successor with the lower key first*) *



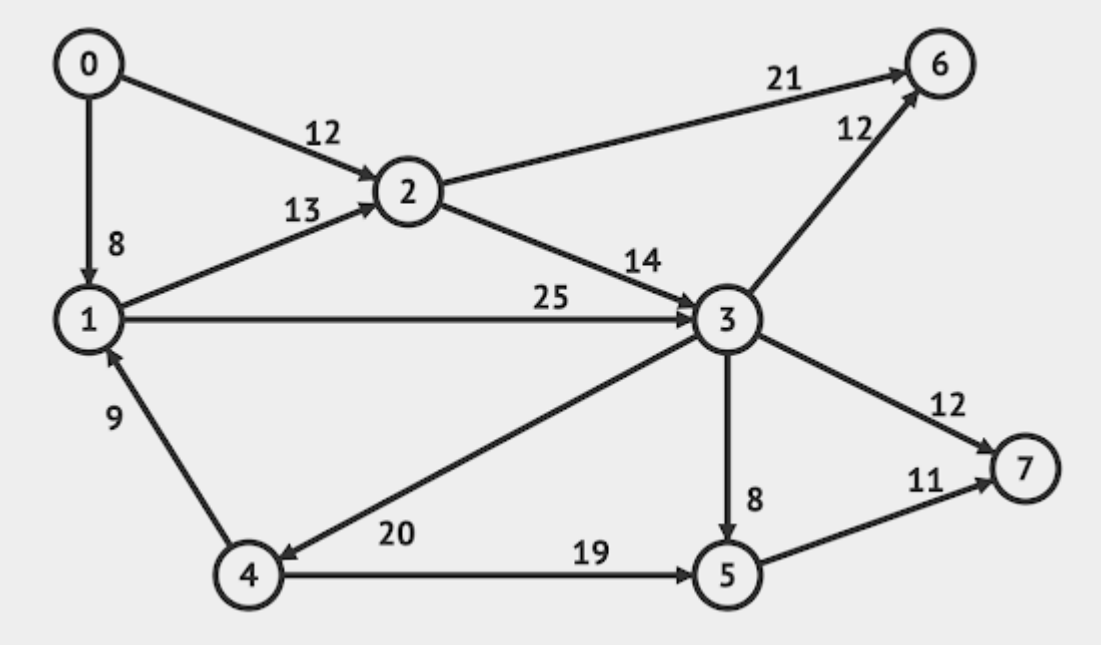
- 0-1-2-6-4-5
- 0-2-6-4-5
- 0-1-3-4-6-5
- 0-1-3-4-5

Q7: Given a graph below. Using **DFS** (graph search) to find the path from 0 to 5. What is the solution? (*Handle the successor with the lower key first*) *



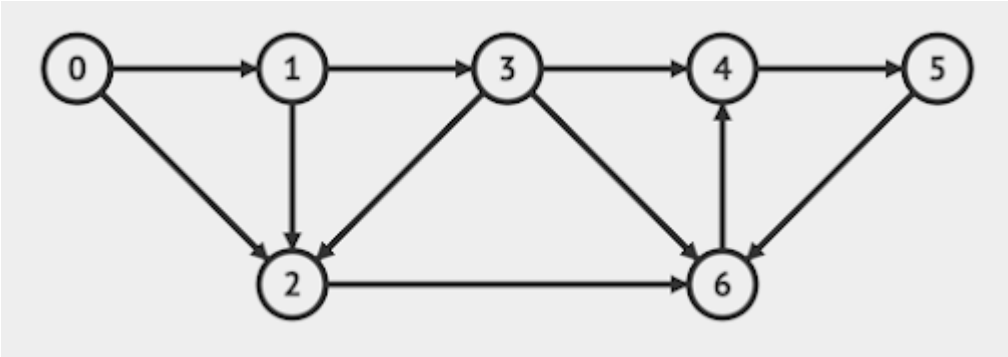
- (●) 0-1-2-6-4-5
- ( ) 0-2-6-4-5
- ( ) 0-1-3-4-6-5
- ( ) 0-1-3-4-5

Q8: Given a graph below. Using **UCS** (graph search) to find the path from 0 to 7. What is the solution? *



- (●) 0-1-3-5-7
- ( ) 0-2-3-5-7
- ( ) 0-1-3-7
- ( ) 0-2-3-7

Q9: Given a graph below. Using **IDS** (graph search) to find the path from 0 to 5. What is the minimum depth for an existing solution? *



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