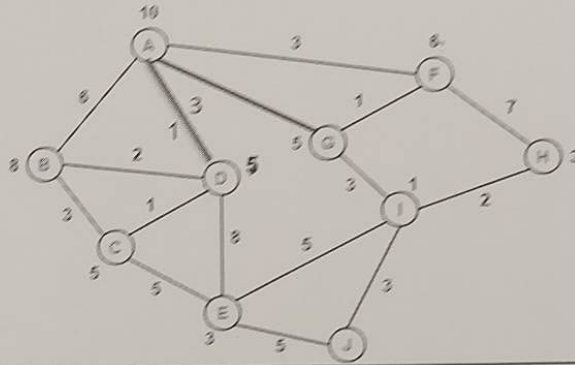


Birzeit University
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Artificial Intelligence Quiz # 1

Name: _____

ID: _____

For the following Search space, find the generated search tree, Visited nodes (in order), and path of the following algorithms:



1. Breadth First Search

	<p>Visited Nodes:</p> <p style="color: red; font-size: 1.2em;">A, B, C, D, A →</p>
<p style="color: red; font-size: 1.5em; text-align: center;">LOOP</p>	<p>Path:</p> <p style="color: red; font-size: 1.5em; text-align: center;">No path Loop</p>

2. A* Search Algorithm

	<p>Visited Nodes:</p> <p style="color: red; font-size: 1.2em;">A, D, C, G, I, F, J</p> <p style="color: red; font-size: 1.2em;">A, D, C, G, I, J</p>
<p style="color: red; font-size: 1.5em; text-align: center;">A, G, I, J</p>	<p>Path:</p> <p style="color: red; font-size: 1.5em; text-align: center;">A, G, I, J</p>

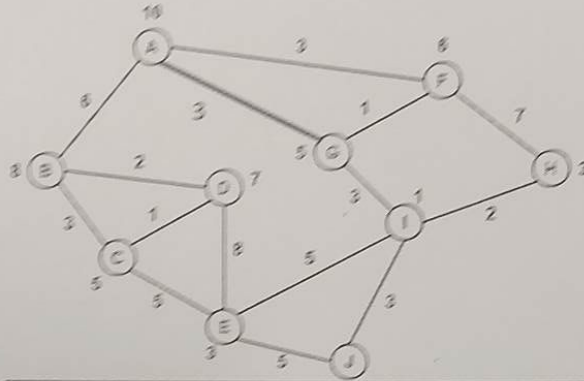
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Key

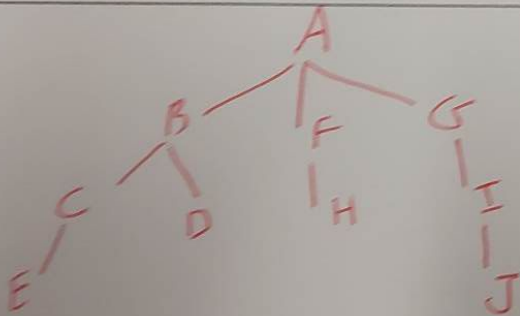
Name: _____

ID: _____

For the following Search space, find the generated search tree, Visited nodes (in order), and path of the following algorithms:



1. Breadth First Search



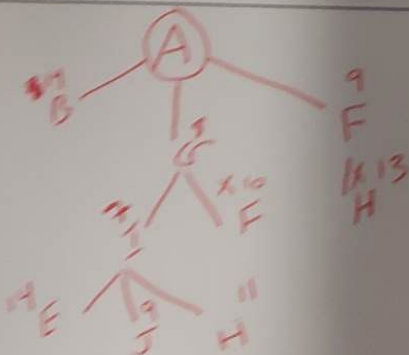
Visited Nodes:

A, B, F, G, C, D, H, I, E, J

Path:

A, G, I, J

2. A* Search Algorithm



Visited Nodes:

A, G, I, F, J OR
A, G, I, J

Path:

A, G, I, J