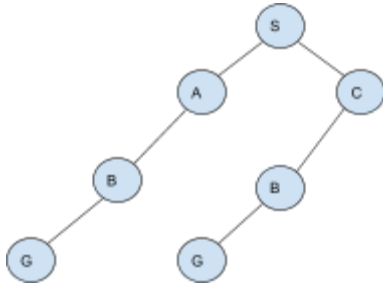


Homework 1

- 1.1 There are a total of 7 nodes in the state space graph for the search tree.



- 1.2 SACG
1.3 SCG
2.1 Nodes are expanded SBADG
The A* graph search returns the path SADG
2.2 Nodes are expanded SBADCG
UCS returns SADG
3.1 $M * N$
3.2 - Manhattan Distance
- Euclidean Distance
4.1 2 [left, up]
4.2 8 [right, up, right, up, up]
4.3 8 [right, up, right, up, up, wait, wait, wait]
5.1 SBG