Algorithm	Time Complexity	Space Complexity	Complete?	Optimal?
BFS	O(V + E)	O(|V|)	Yes, guaranteed to find solution	Yes, assuming all actions have a uniform cost
UCS	O((V+E)logV)	O(V)	Yes, guaranteed to find a solution	Yes, guaranteed to find correct solution
DFS	O(b^n), where n is the depth of the search tree.	(O(bn)) Linear	Complete on a finite graph, if space is infinite or we can't search for repeated states then no.	No guarantee the first solution is the best
DLS	O(b^L), where L is the pre-set limit of the search tree.	(O(L))	No, the limit allows for efficiency but not all nodes are explored	No, the first solution found will be return regardless of if it's the best or not
IDS	O(b^d)	O(bd)	Yes, will not stop until solution is found	Yes, guaranteed to find correct solution
A*	At worst: O(b^d)	O(b^d)	Depends on conditions, can be complete and optimal	Depends on conditions, can be complete and optimal