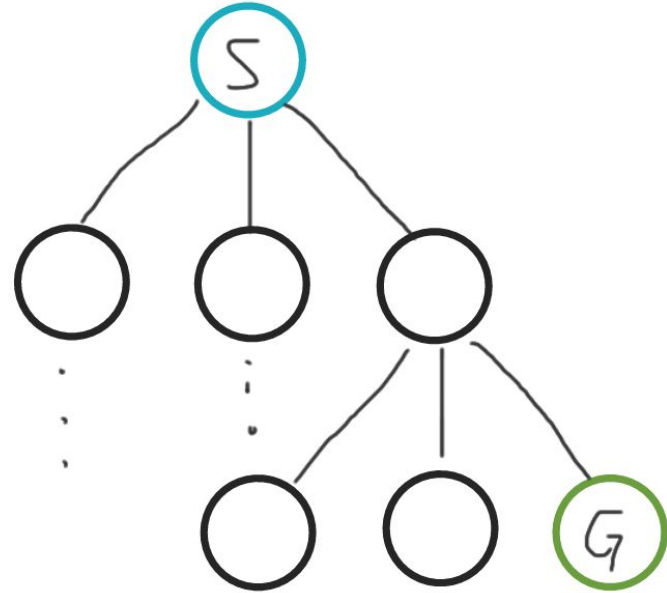


Uninformed Search

Components of a search problem:

- State space
- Start state
- Successor function
- Action cost
- Goal state



Uninformed Search Algorithms

Algorithm	Fringe	Complete?	Optimal?
Depth-first search: Explore a path fully before backtracking	Stack	Tree search: no Graph search: depends on size of state space	No
Breadth-first search: Search all children of the current node, level by level	Queue	Yes	No, unless all edge costs are the same
Uniform cost search: Explore the cheapest path first	Priority queue	Yes, if edge costs are positive	Yes, if edge costs are positive