



# AI Search Algorithms

In Artificial Intelligence, search algorithms can be broadly categorized into two types: informed and uninformed search algorithms. These algorithms are used to navigate problem spaces, find solutions, or optimize outcomes in various AI tasks.

## Uninformed Search Algorithms

1

### Breadth-first Search

BFS is a search algorithm that explores all the nodes at a given depth before moving on to the next depth level. It starts at the root node and explores all of its neighboring nodes before moving on to the next depth level.

2

### Depth-first Search

DFS is a search algorithm that explores as far as possible along each branch before backtracking. It starts at the root node and explores each of its neighboring nodes until it reaches a dead end, and then backtracks to explore the next branch.

3

### Depth-limited Search

Depth-limited search (DLS) is a variant of depth-first search that limits the maximum depth of exploration. It stops exploring a branch when the maximum depth is reached, even if the solution has not been found.

4

### Iterative Deepening Depth-first Search

It is a variant of depth-first search that gradually increases the maximum depth of exploration until the solution is found. It starts with a maximum depth of 1 and increases the depth by 1 in each iteration until the solution is found.

5

### Uniform Cost Search

Uniform cost search (UCS) is a search algorithm that explores the nodes with the lowest cost first. It starts at the root node and explores each neighboring node in order of increasing cost.

6

### Bidirectional Search

Bidirectional search is a search algorithm that starts from both the starting and ending nodes and searches towards the middle. It explores all the neighboring nodes in both directions until they meet at a common node.

## Informed Search Algorithms

1

### Best First Search Algorithm (Greedy Search)

The Best First Search Algorithm, also known as Greedy Search, is a search algorithm that selects the node that is closest to the goal state based on a heuristic function. The heuristic function provides an estimate of the distance between the current node and the goal state.

2

### A\* Search Algorithm

The A\* Search Algorithm is an informed search algorithm that combines the advantages of both uniform cost search and best-first search. It uses a heuristic function to estimate the distance from the current node to the goal state, but also considers the actual cost of reaching that node.



# Search In Artificial Intelligence

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