Time Complexity of A Algorithm* - A algorithm dime complexity depends on the heuristic's quality and problem space size - Generally expressed as O(5d), where b is the branching Sactor and d is the alight of the solution:
- Esticiency improves with a good heuristic Junction > ! Limitations of A Algorithm* - can be ineddicient or incorrect with a pour heuristic

- Faces challenges with large or dynamic search spaces

- Memory-indensive for large space due to storing explored states. A* = Combines best Seatures of greedy search and Dijkstra's algorithm Depends on heuristic quality. BFS: Gucventees shortest path in unweighted graphs. Memory intensive but suitable for small spaces. Dis: Does not guarantee shortest path. Memory - efficient but may get stuck in intinite loops. Dijkstra's: Finds shortest path in weighted graphs suitable