

FORMAÇÃO INTELIGÊNCIA ARTIFICIAL E MACHINE LEARNING

ALGORITMOS DE BUSCA E OTIMIZAÇÃO FORÇA BRUTA COM BFS E DFS

Prof. Fernando Amaral –Todos os Diretos Reservados

Algoritmos Brute Force / Blind Search

- Exploram todo o Espaço de Busca
- ➤ Garantem encontrar Global Optima

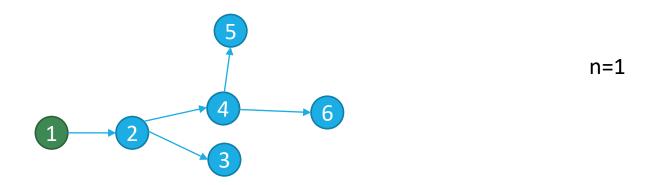




- Capaz de retornar de uma vizinhança em busca de uma solução melhor
 - "backtracing"

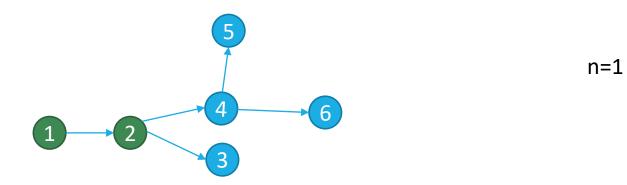






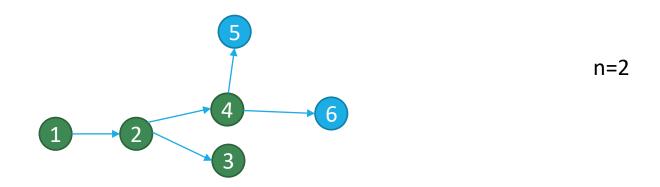






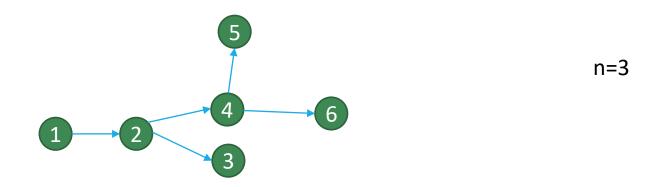








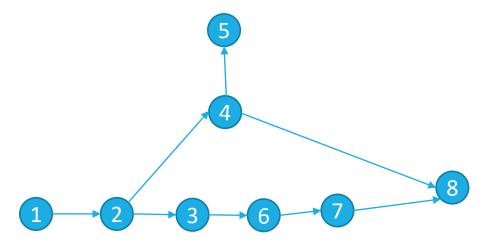








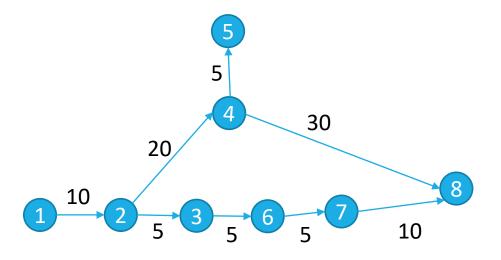
Custo







Custo



 $S_1: 1 > 2 > 4 > 8$

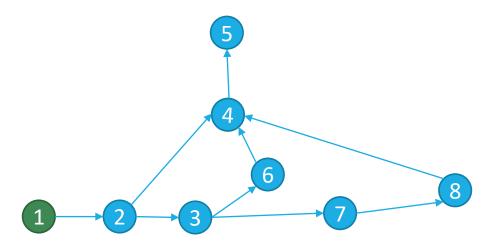
 S_2 : 1 > 2 > 3 > 6 > 7 > 87

Fc₁: 60

Fc₂: 30

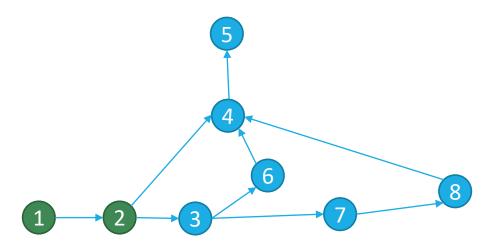






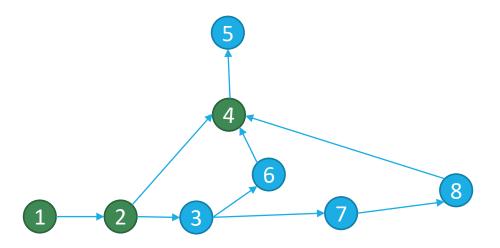






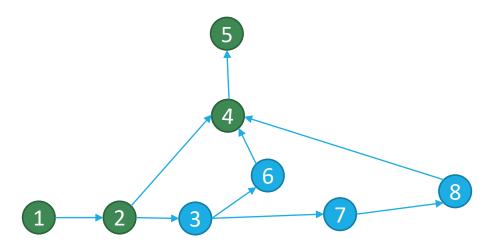






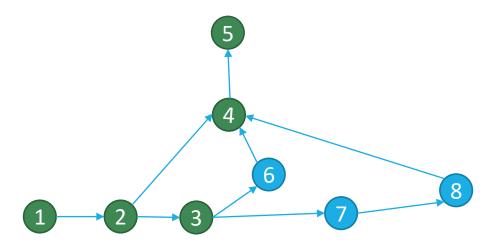






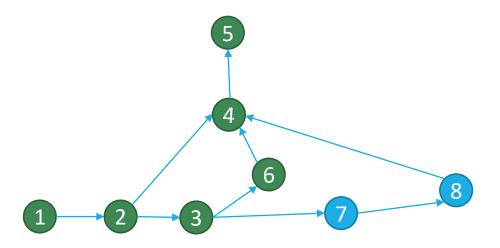






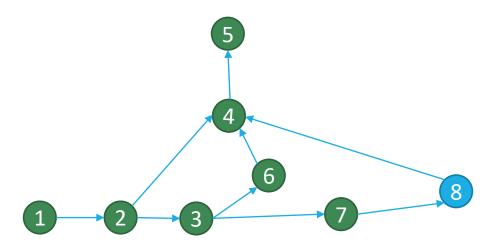






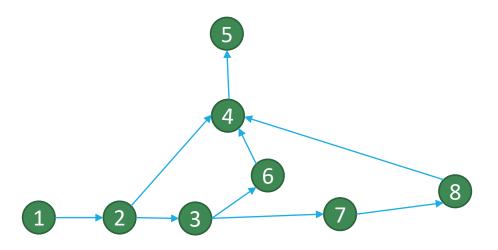
















Best First search

- ➤ Usa heurística para avaliar o valor de cada nó
- ➤ Sua performance depende da heuristica



