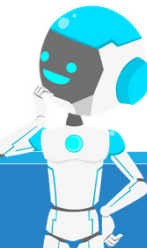


# Algoritmos Brute Force / Blind Search

---

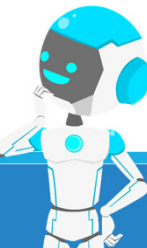
- Exploram todo o Espaço de Busca
- Garantem encontrar Global Optima



# Breadth First

---

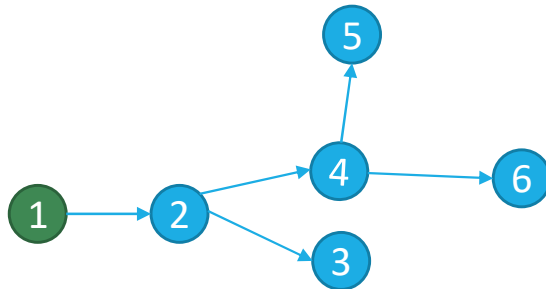
- Capaz de retornar de uma vizinhança em busca de uma solução melhor
  - “backtracing”



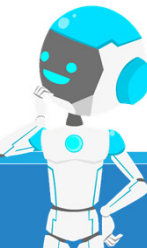
# Breadth First

---

- Quais estados pode ser alcançados a partir do 1 com apenas  $n$  etapas?



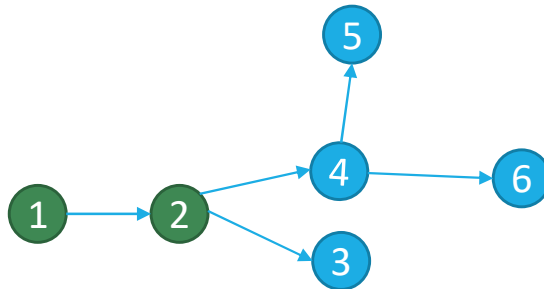
$n=1$



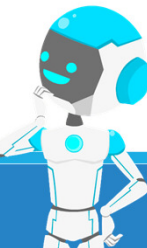
# Breadth First

---

- Quais estados pode ser alcançados a partir do 1 com apenas  $n$  etapas?



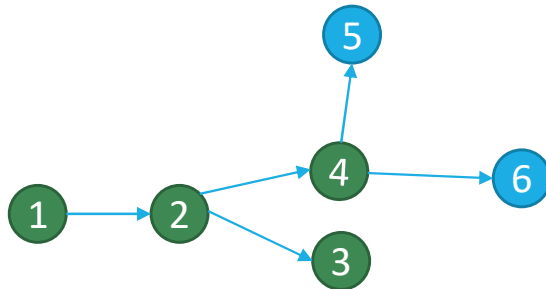
$n=1$



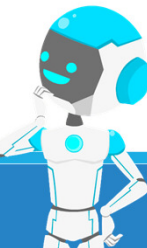
# Breadth First

---

- Quais estados pode ser alcançados a partir do 1 com apenas  $n$  etapas?



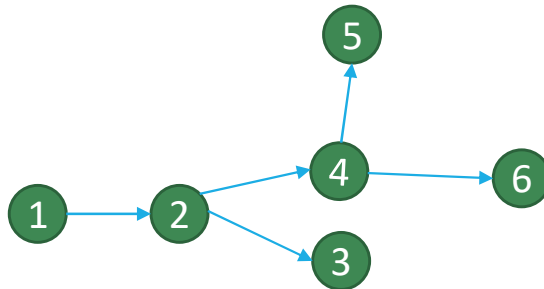
$n=2$



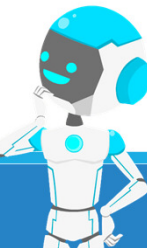
# Breadth First

---

- Quais estados pode ser alcançados a partir do 1 com apenas  $n$  etapas?

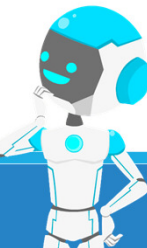
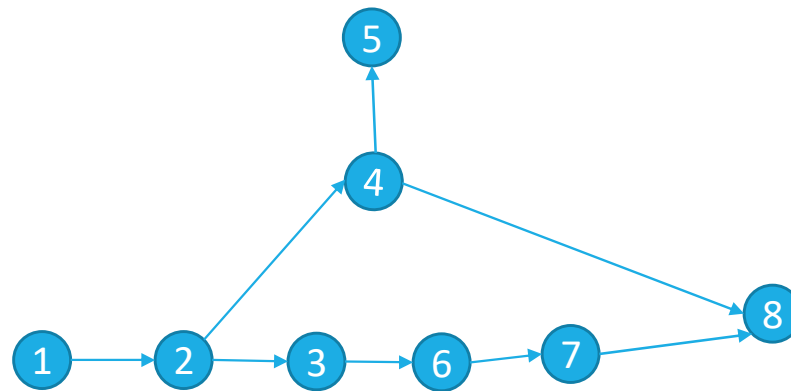


$n=3$



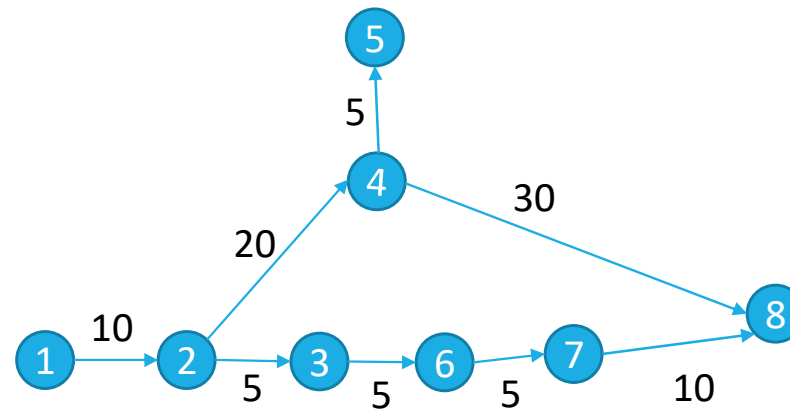
# Custo

---



# Custo

---

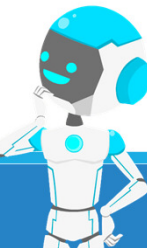


$S_1: 1 > 2 > 4 > 8$

$S_2: 1 > 2 > 3 > 6 > 7 > 8$

$Fc_1: 60$

$Fc_2: 35$

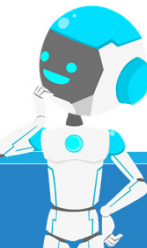
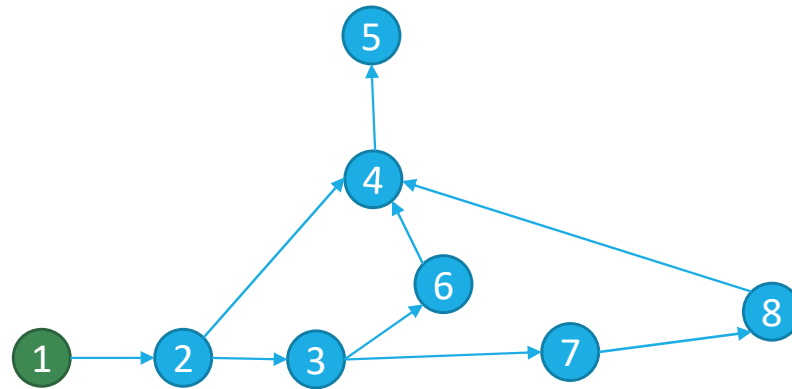




# Depth-first search

---

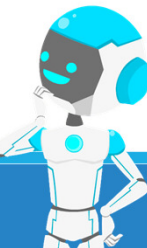
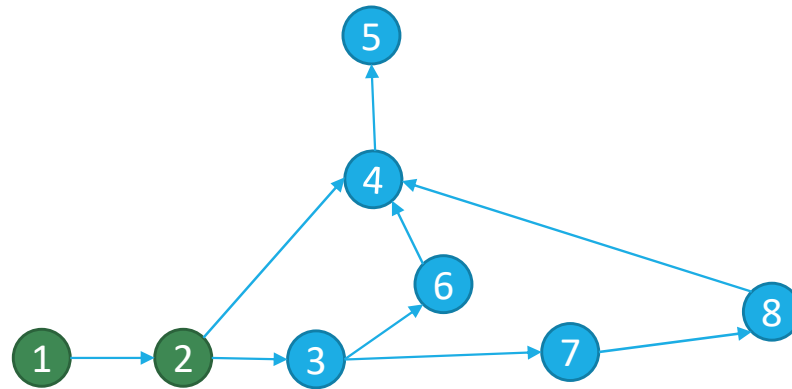
- Explora uma vizinhança, retornando e tentando outras ramificações



# Depth-first search

---

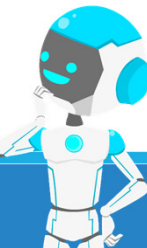
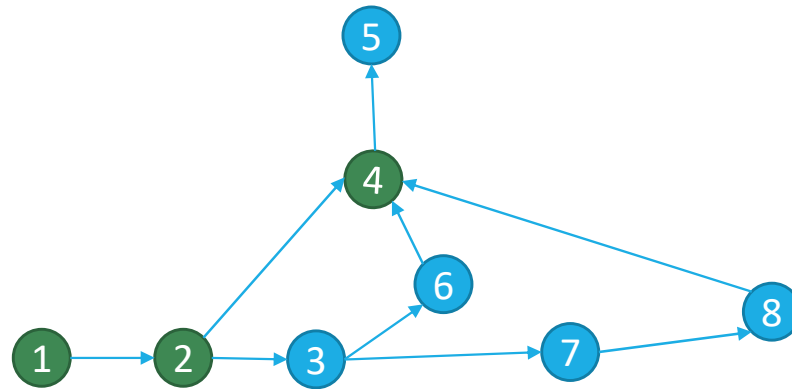
- Explora uma vizinhança, retornando e tentando outras ramificações



# Depth-first search

---

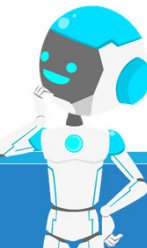
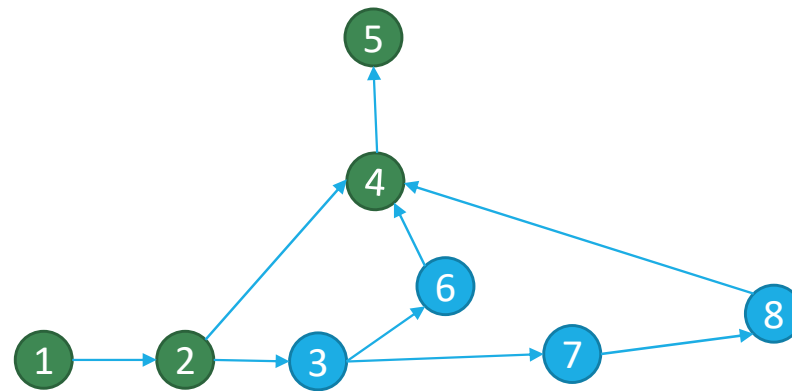
- Explora uma vizinhança, retornando e tentando outras ramificações



# Depth-first search

---

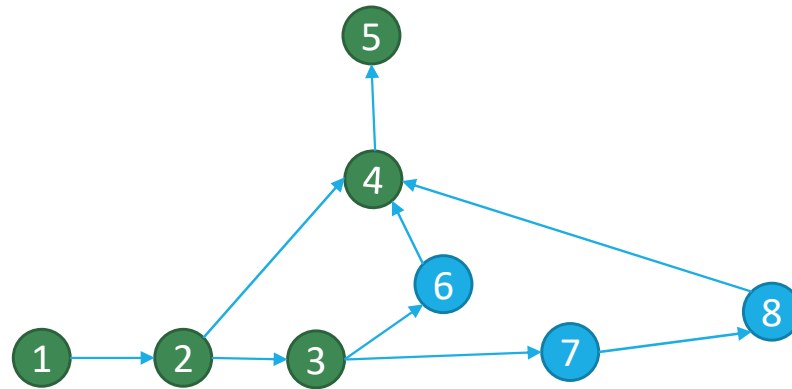
- Explora uma vizinhança, retornando e tentando outras ramificações



# Depth-first search

---

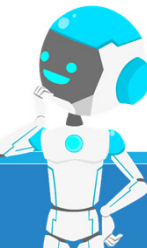
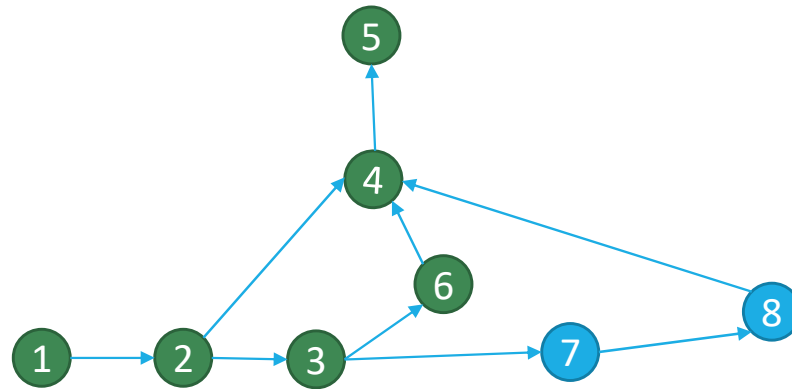
- Explora uma vizinhança, retornando e tentando outras ramificações



# Depth-first search

---

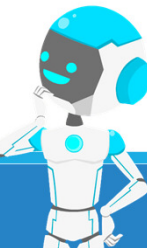
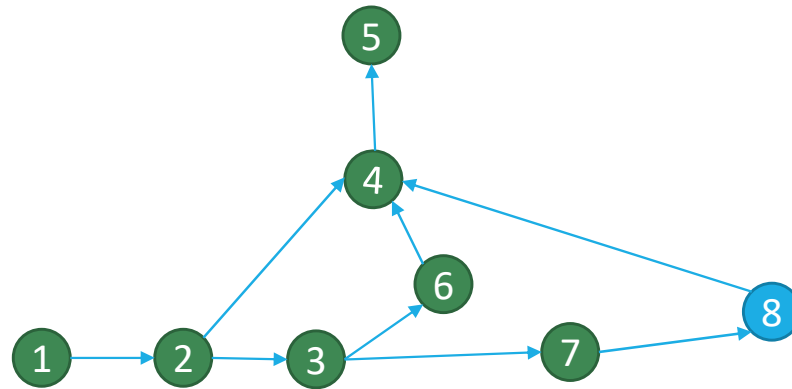
- Explora uma vizinhança, retornando e tentando outras ramificações



# Depth-first search

---

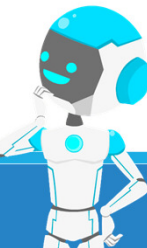
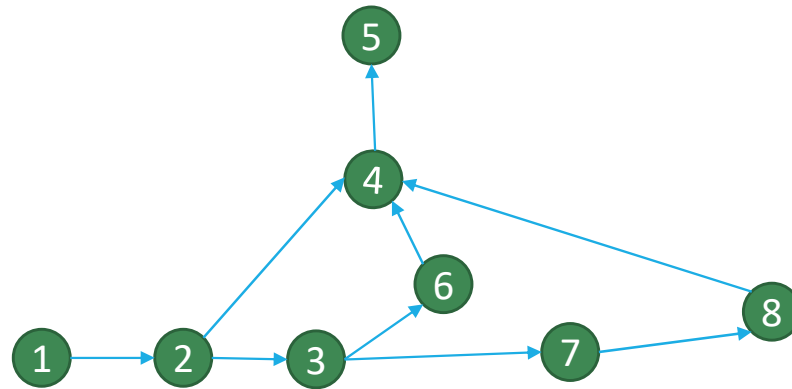
- Explora uma vizinhança, retornando e tentando outras ramificações



# Depth-first search

---

- Explora uma vizinhança, retornando e tentando outras ramificações





# Best First search

---

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

