

Algoritmos de búsqueda clásicos

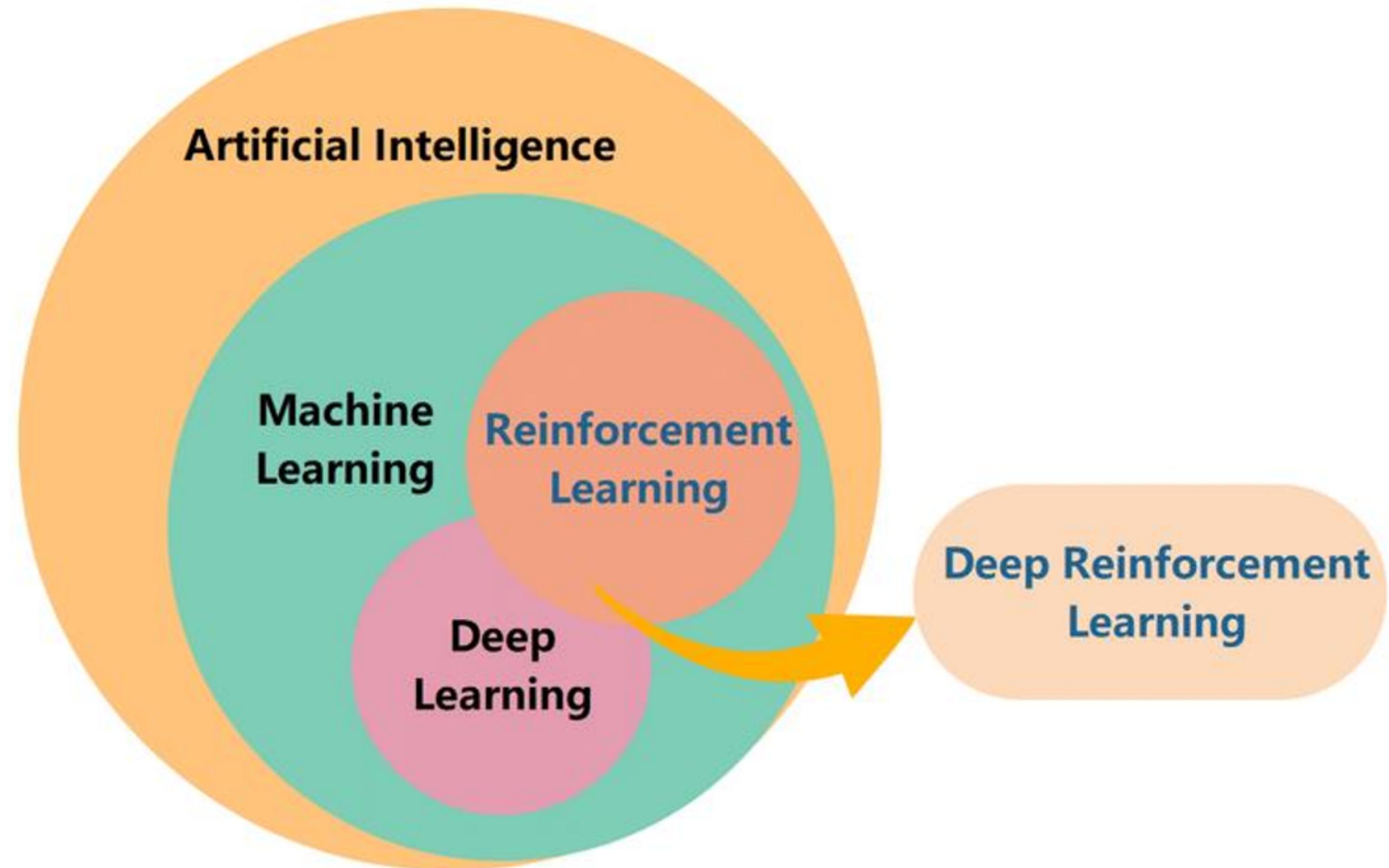
Python para IA

Cristian Bran

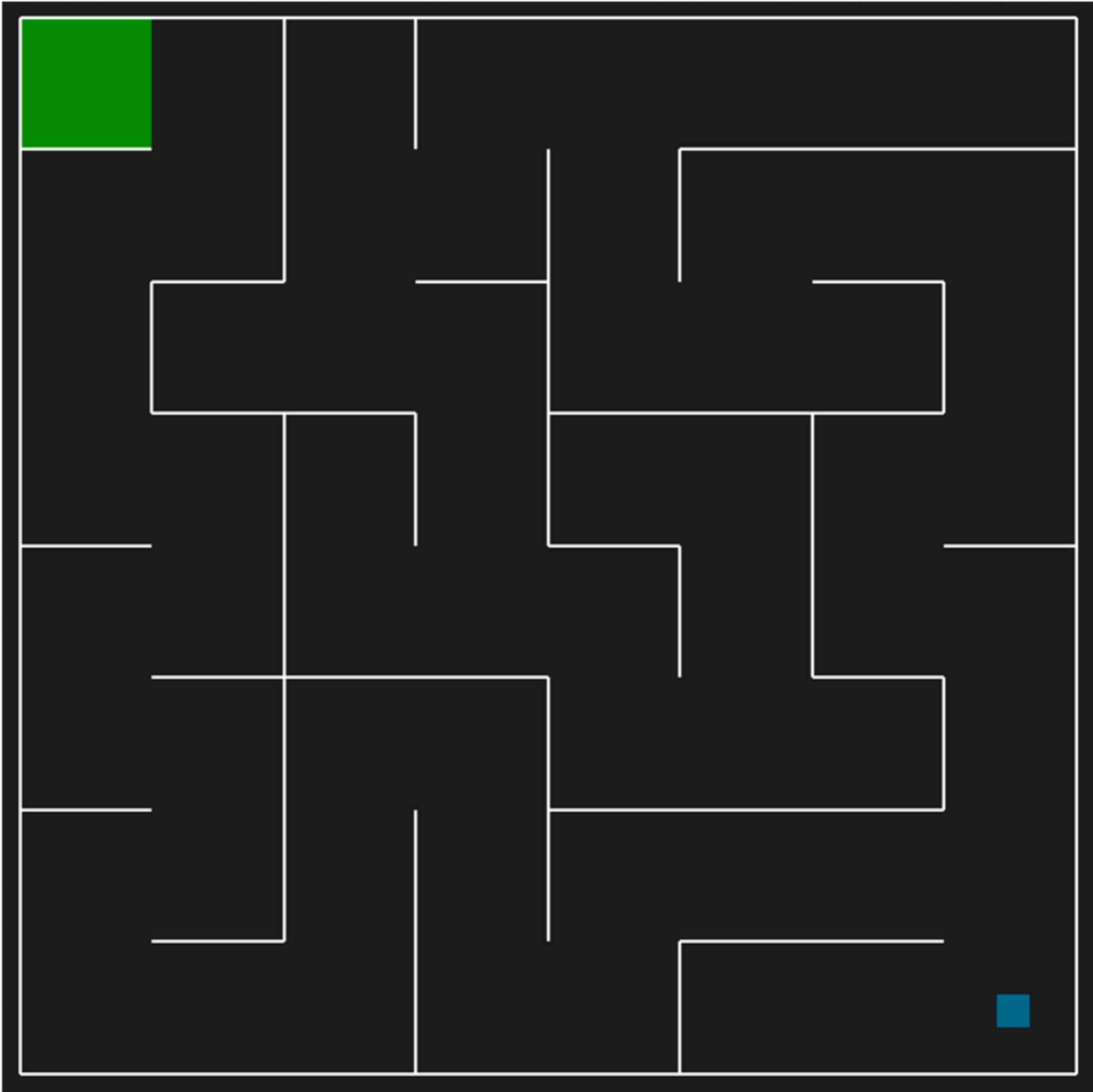
www.ieee.org



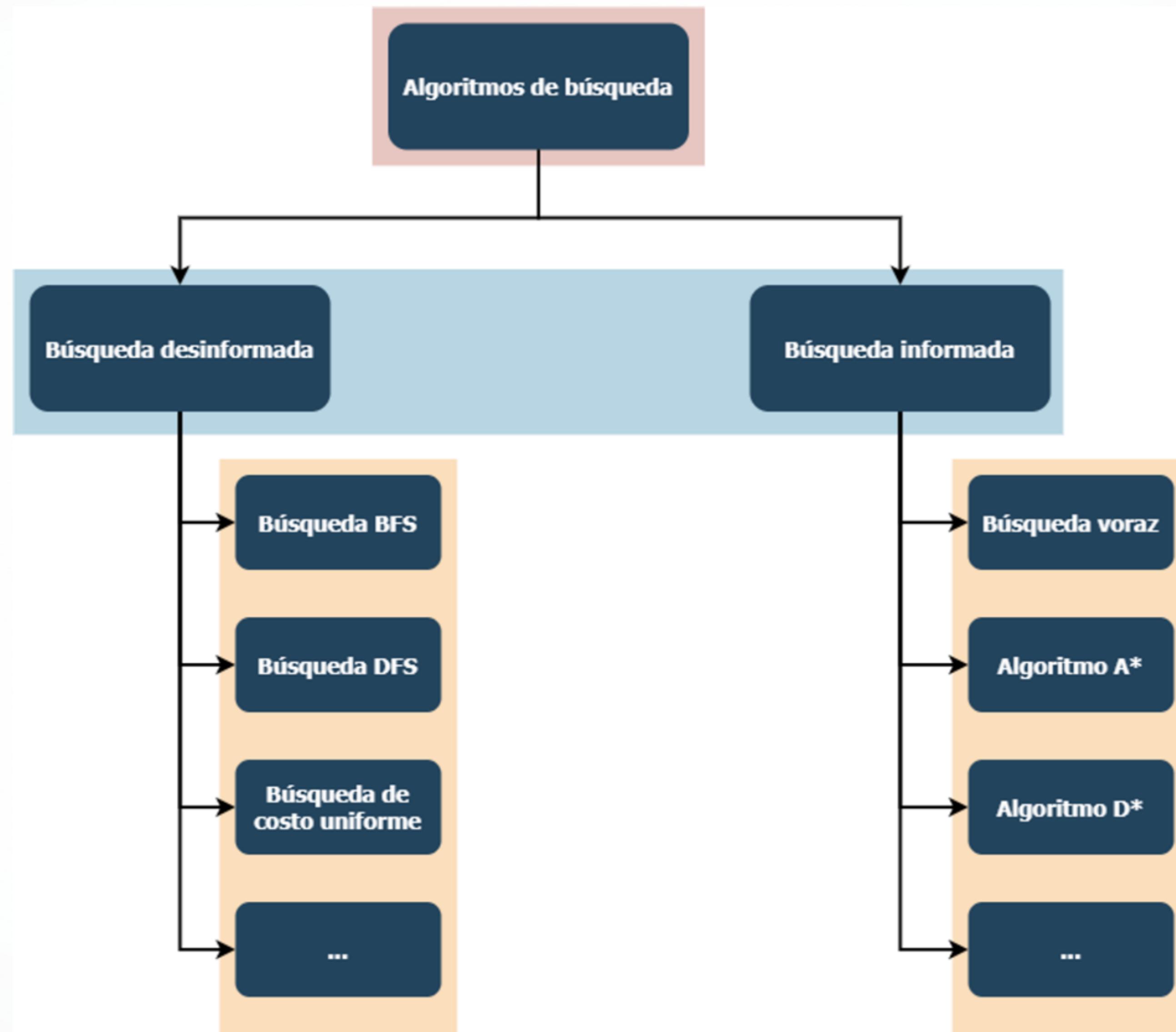
Inteligencia artificial



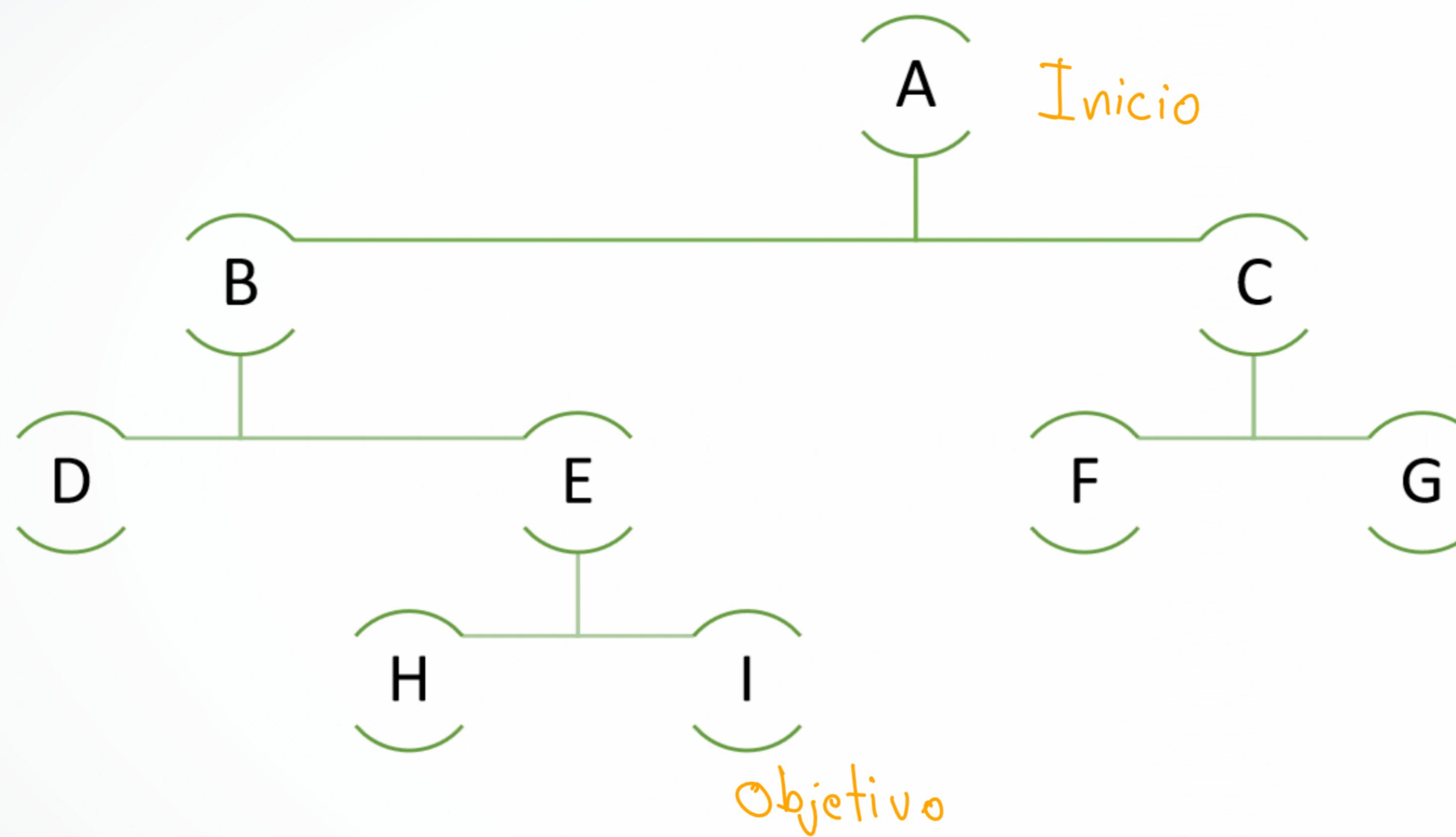
Problema



Algoritmos de búsqueda



Búsqueda BFS y DFS



BFS:

A → B → C → D → E → F → G

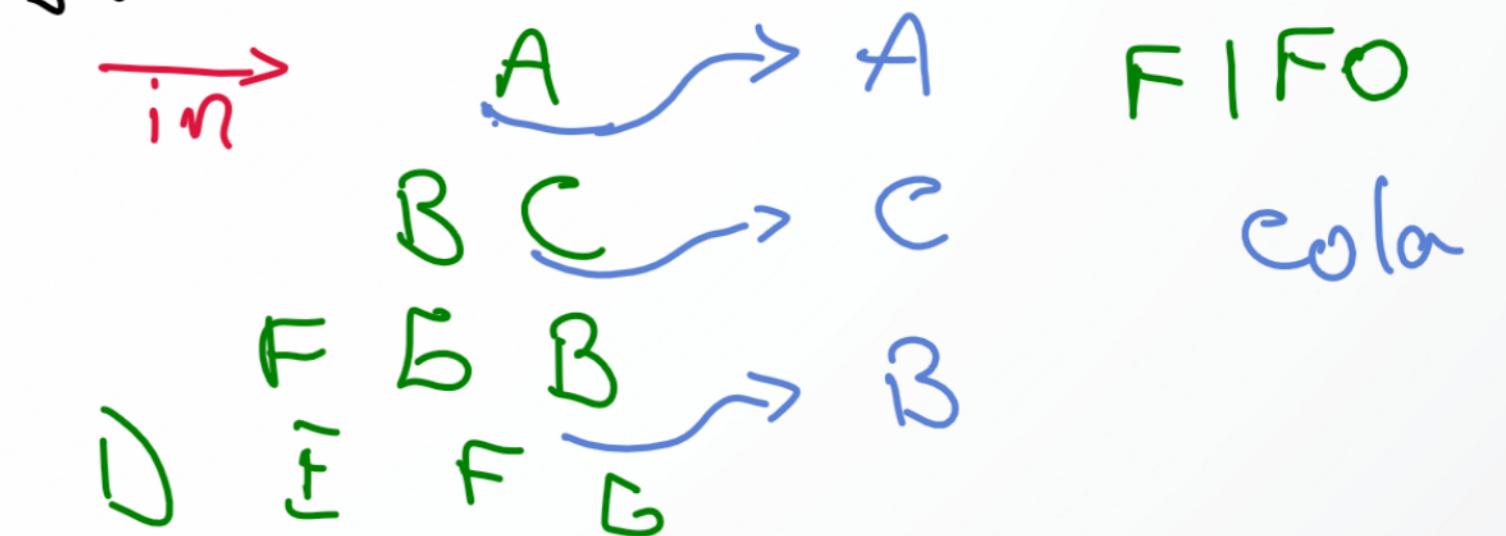
H → I ✓

DFS:

A → B → D → E → H → I ✓

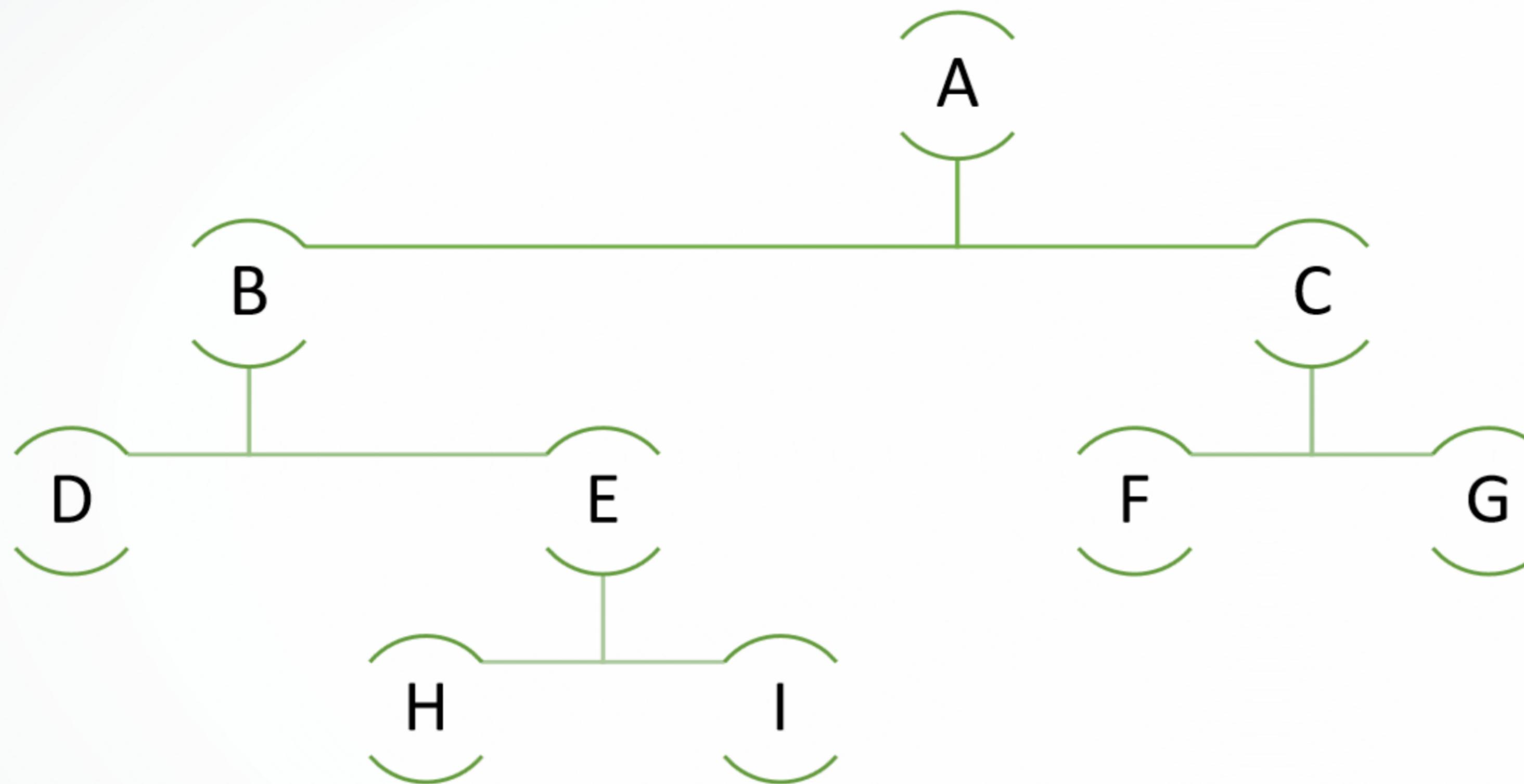
Implementación:

BFS:



DFS: LIFO Pila

Algoritmo A*



$$f(x) = g(x) + h(x)$$

costo
trayectoria

Minimizar

BFS y DFS

cola de prioridad



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¡MUCHAS GRACIAS POR SU ATENCIÓN!