def Search (G, S, goal)

F = {(5)}

While F # {} do:

Select and romove (no,...,nk) from F

if goal (nk) then:

return (no,...,nk)

F = F U {(no,...,nk) : (nk) EA}

return L

* Breadth first algorithm (BFS)

The frontier is a queue

* Depth first algorith (DFS)

The frontier is a Stack

* Lowest - cost first

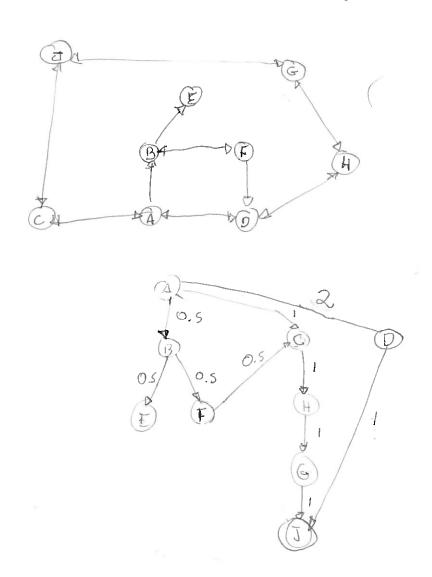
- Priority queve using the path

Lo Guavanteed optimal cost

Search complexity Basic operation. Breadth first Add clument to the 8 60 6 0 5 32 62 Duan-live, $C(b, h) = \begin{cases} b \\ -b \end{cases} = \frac{1-b}{1-b} \in O(b^h)$ Sr = av + av + ooc + auh-1 V Su = av + au + av h Sn - v Sr = a v 0 + a v h Su(1-u) = a (1 + vh) Sv = 0 (1+ L) Dopth first 3 x0 - (-1)

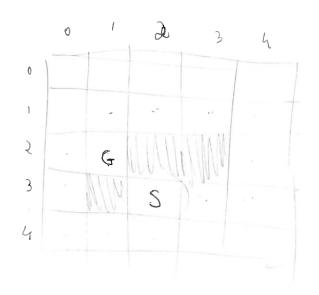
Poda

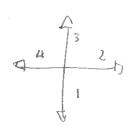
Lo Poda de ciclos Lo Poda de multiplos caminhos



Exercícia:

Fazer BFS
Fazer DFS
Fazer LCFS





Fozer DFS

Fazer BIS

[0,0] {(2,3), [a.4]), (a.3) [3,3])}