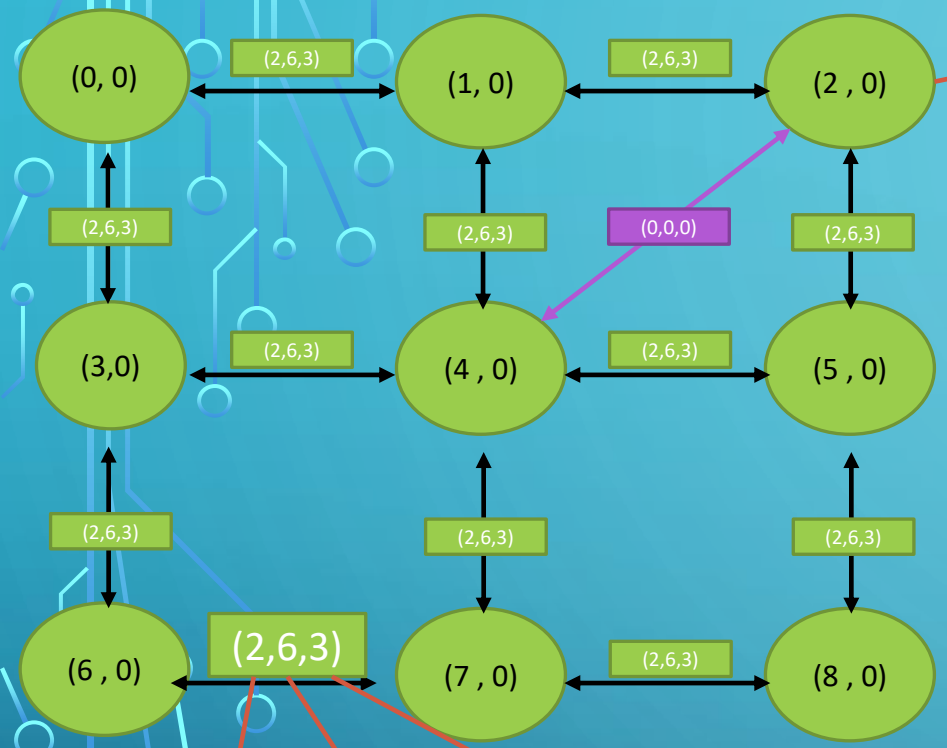
# MATRIZ DE UM GRID 3X3




Grid: (nº Vértice, Ícone)

## Matriz Grid

| X | Coluna 0 | Coluna 1 | Coluna 2 |
|---|---|---|---|
| Linha 0 | (0, 0) | (1, 0) | (2, 0) |
| Linha 1 | (3, 0) | (4, 0) | (5, 0) |
| Linha 2 | (6, 0) | (7, 0) | (8, 0) |

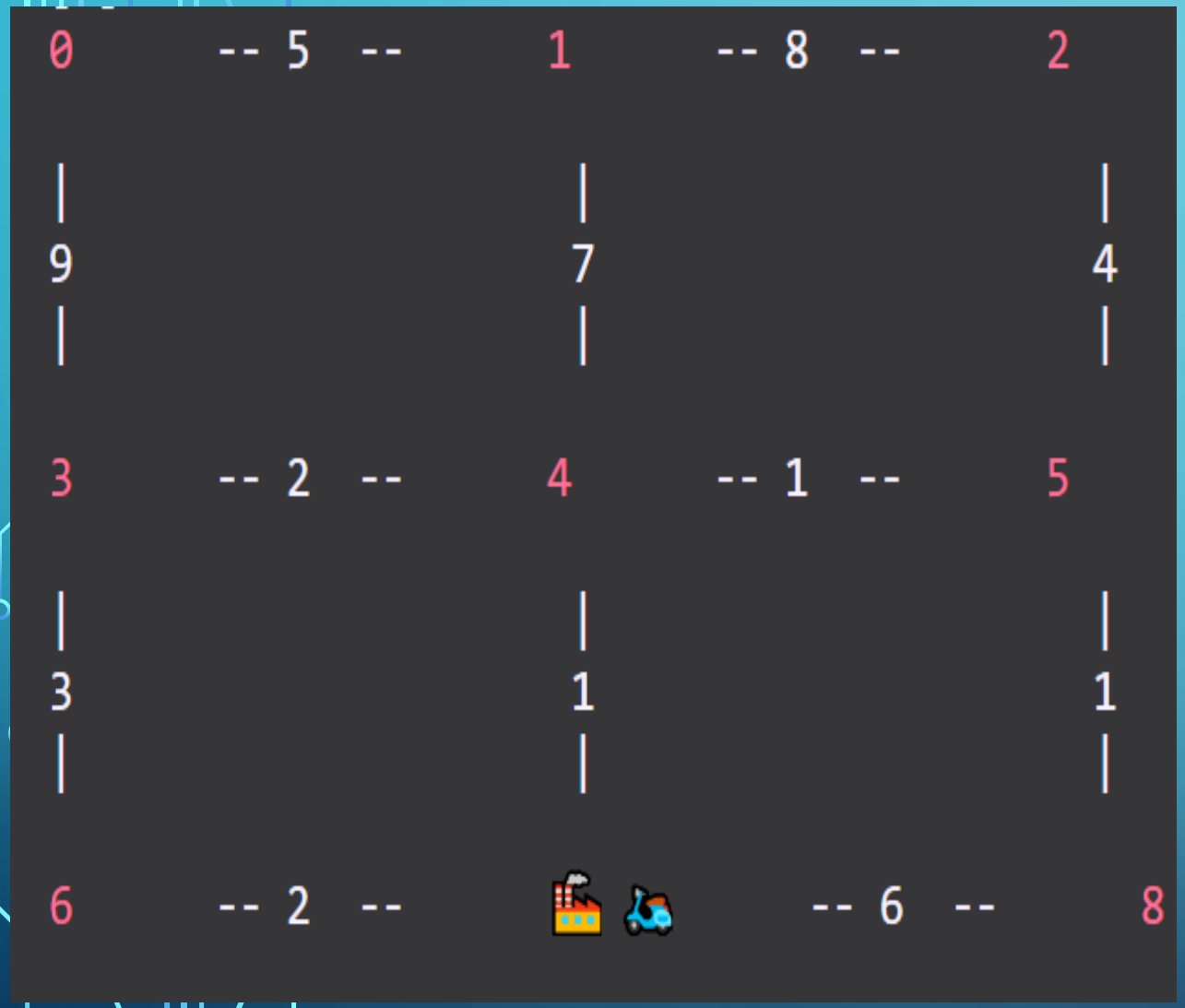
| COD | Ícone |
|---|---|
| 0 | Vértice |
| 1 | Pizzaria |
| 2 | Entregador |
| 3 | Cliente |
| 4 | check (entrega feita) |
| 5 | Check e entregador |
| 6 | Pizzaria e entregador |

Aresta: (Distancia, Tempo, (tempo/distancia))

Matriz Arestas

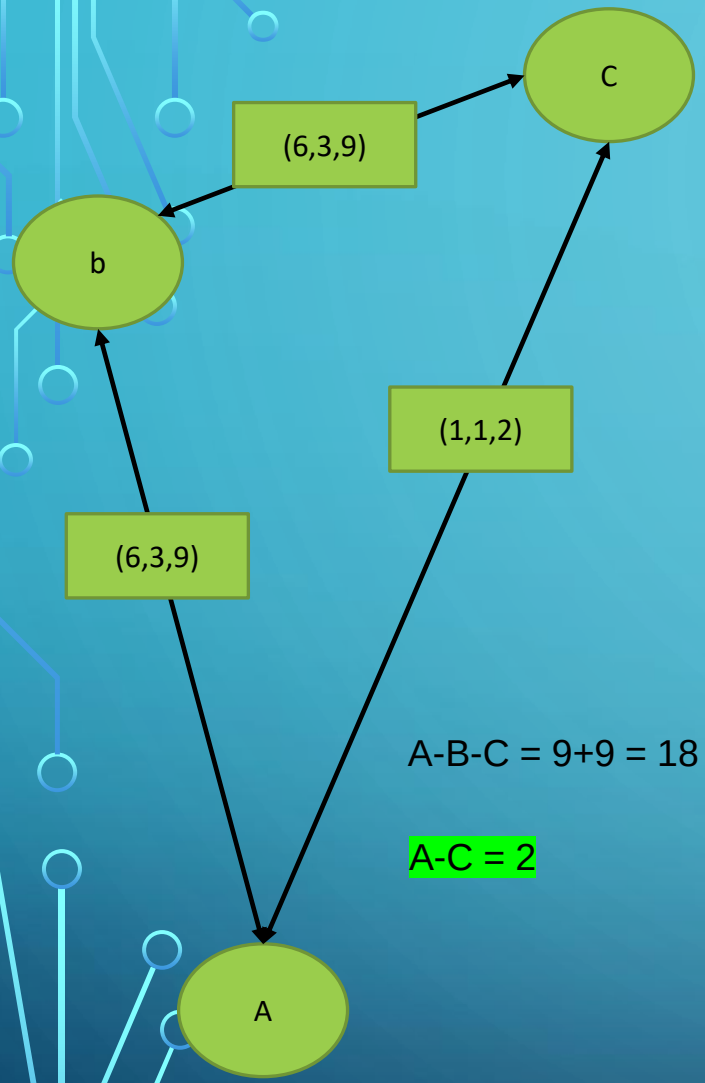
| X | Coluna 0 | Coluna 1 | Coluna 2 | Coluna 3 | Coluna 4 | Coluna 5 | Coluna 6 | Coluna 7 | Coluna 8 |
|---|---|---|---|---|---|---|---|---|---|
| Linha0 | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) |
| Linha 1 | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) |
| Linha 2 | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) |
| Linha 3 | (2, 6, 3) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (0, 0, 0) |
| Linha 4 | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) |
| Linha 5 | (0, 0, 0) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (2, 6, 3) |
| Linha 6 | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) |
| Linha 7 | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) |
| Linha 8 | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) | (2, 6, 3) | (0, 0, 0) |

# Tabela custo_pi_finalizado



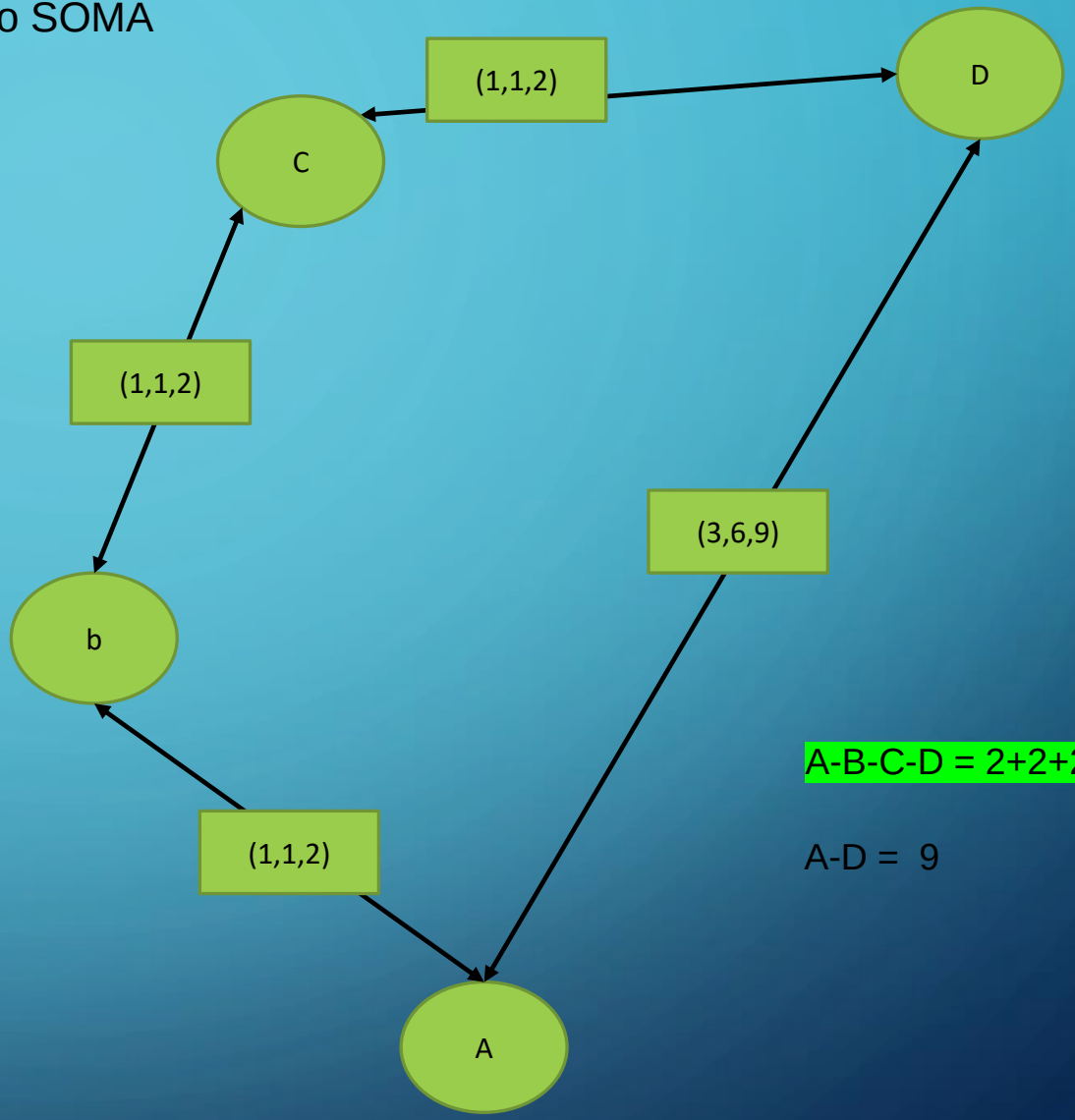

| Vértice | Custo | PI | Finalizado |
|---|---|---|---|
| 0 | Null | Null | 0 |
| 1 | Null | Null | 0 |
| 2 | Null | Null | 0 |
| 3 | Null | Null | 0 |
| 4 | Null | Null | 0 |
| 5 | Null | Null | 0 |
| 6 | Null | Null | 0 |
| 7 | Null | Null | 0 |
| 8 | Null | Null | 0 |

Aresta tipo SOMA




A-B-C = 9+9 = 18

A-C = 2




A-B-C-D = 2+2+2 = 6

A-D = 9

# Exceção?


Grid: 3 x 3
Aresta tipo: Distancia
Distancia: 17 Tempo: 32 soma: 49
Percurso: [[8, 5, 4], [1], [4, 7]]
Aresta tipo: Tempo
Distancia: 16 Tempo: 20 soma: 36
Percurso: [[8, 7], [4], [1]]
Aresta tipo: soma
Distancia: 16 Tempo: 20 soma: 36
Percurso: [[8, 7], [4], [1]]
0 -- 4 -- -- 2 -- 2
9 1 1
3 -- 7 -- -- 1 -- 5
2 7 7
6 -- 1 -- -- 8 --
[0]-Sair
[1]-Repet
[2]-Config e Repet :
Opção: