

## Exercicio Dijkstra

obs.: origem no vertice 4

S	Pivo	C	D	P
{4}	5	{1,2,3,7}	10,-,-,x,4,7	4,4,4,x,4,4

$D[1] = \min(D[1], D[5] + L[5,1])$  nao melhorou

$D[2] = \min(D[2], D[5] + L[5,2])$  nao melhorou

$D[3] = \min(D[3], D[5] + L[5,3])$  melhorou:

$D[5] + L[5,3] = 4+4 = 8$  entao  $D=10,-,8,x,4,7$   $P=4,4,5,x,4,4$

$D[6] = \min(D[6], D[5] + L[5,6])$  nao melhorou

{4,5}	6	{1,2,3}	10,-,8,x,4,7	4,4,5,x,4,4
-------	---	---------	--------------	-------------

$D[1] = \min(D[1], D[6] + L[6,1])$  nao melhorou

$D[2] = \min(D[2], D[6] + L[6,2])$  nao melhorou

$D[3] = \min(D[3], D[6] + L[6,3])$  nao melhorou

{4,5,6}	3	{1,2}	10,-,8,x,4,7	4,4,5,x,4,4
---------	---	-------	--------------	-------------

$D[1] = \min(D[1], D[3] + L[3,1])$  nao melhorou

$D[2] = \min(D[2], D[3] + L[3,2])$  melhorou:

$D[3] + L[3,2] = 8+8 = 16$  entao  $D=10,16,8,x,4,7$   $P=4,3,5,x,4,4$

{4,5,6,3}	1	{2}	10,16,8,x,4,7	4,3,5,x,4,4
-----------	---	-----	---------------	-------------

$D[2] = \min(D[2], D[1] + L[1,2])$  melhorou:

$D[1] + L[1,2] = 10+5 = 15$  entao  $D=10,15,8,x,4,7$   $P=4,1,5,x,4,4$

{4,5,6,3,1}	2	{}		FIM
-------------	---	----	--	-----