

# Algoritmo de Rotamenter

a) Link State  $\{ D(v) = \min \{ D(u), D(u) + c(u, v) \} \}$  No Formula I

Mostrar as 3 primeiras iterações

Iterações	N	t	u	v	w	x	y	z
0	w	2u	-	3u	3u	$\infty$	$\infty$	$\infty$
1	ut	-	-	3u	3u	$\infty$	9,t	$\infty$
2	utv	-	-	-	3u	6,v	9,t	$\infty$

Embe no Rotamenter

↳ Formula

1 b) Algoritmo vetor distância }  $D_x(y) = \min_v \{c(x,v) + d_v(y)\}$

~ trace de mensagem para  $u$

$$\sim d_u(y) = \min \{c(u,v) + d_v(y)\}$$

$$\sim d_u(y) = \min \left\{ \overset{3}{c(u,v)} + d_v(y), \overset{3}{c(u,w)} + d_w(y), \underset{2}{c(u,t)} + d_t(y) \right\} \rightarrow \begin{aligned} c(u,v) &= 3 \\ c(u,w) &= 3 \\ c(u,t) &= 2 \end{aligned}$$

$$\sim d_t(y) = \min \left\{ \overset{8}{c(v,y)} + d_y(y), c(v,x) + d_x(y), \dots \right\} \rightarrow \begin{aligned} c(v,y) &= 8 \\ c(v,x) &= 9 \\ d_y(y) &= 0 \\ d_x(y) &= \dots \end{aligned}$$

$= 8 //$

$$\sim d_t(y) = \min \left\{ \overset{7}{c(x,y)} + d_y(y), \underset{4}{c(t,v)} + \underset{8}{d_v(y)} \right\} \rightarrow \begin{aligned} c(x,y) &= 7 \\ d_y(y) &= 0 \\ c(t,v) &= 4 \\ d_v(y) &= 8 \end{aligned}$$

$= 7 //$

$$d_u(y) = \min \{3+8, 3+12, 2+7\}$$

$= 9$  por  $x$



# Algoritmo de Rotacamento

a) Link State  $\{ D(u) = \min_v \{ D(v), D(v) + c(v,u) \}$  I

Mostrar as 3 primeiras iterações

Iterações	N	x	u	v	w	x	y	z
0	w	2u	-	3u	3u	∞	∞	∞
1	ut	-	-	3u	3u	∞	9,t	∞
2	utv	-	-	-	3u	6,v	9,t	∞

Enlace ra  
Potência u

FAITHFUL

b) Algoritmo Vector distâncias  $\{ D_x(y) = \min_v \{ c(x,v) + d_v(y) \}$

~ trace de mensagem para "u"

$$~ d_u(y) = \min \{ c(u,v) + d_v(y) \}$$

$$~ d_u(y) = \min \{ \overset{3}{c(u,v)} + d_v(y), \overset{3}{c(u,w)} + d_w(y), \overset{2}{c(u,x)} + d_x(y) \}$$

$$c(u,v) = 3$$

$$c(u,w) = 3$$

$$c(u,x) = 2$$

$$~ d_x(y) = \min \{ \overset{8}{c(x,y)} + d_y(y), \overset{0}{c(x,x)} + d_x(y) \}$$

$$= 8 // \checkmark$$

$$c(x,y) = 8$$

$$c(x,x) = 0$$

$$d_y(y) = 0$$

$$d_x(y) = \dots$$

$$~ d_t(y) = \min \{ \overset{7}{c(t,y)} + d_y(y), \overset{0}{c(t,v)} + d_v(y) \}$$

$$= 7 // \checkmark$$

$$c(t,y) = 7$$

$$d_y(y) = 0$$

$$c(t,v) = 4$$

$$d_v(y) = 8$$

$$d_u(y) = \min \{ 3+8, 3+12, 2+7 \}$$

$$= 9 \text{ por } x$$