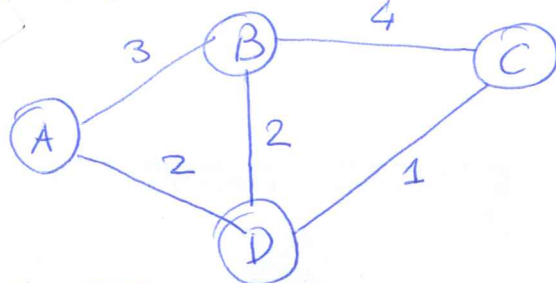


PROBLEMA LINK STATE



$t = 5,003s$

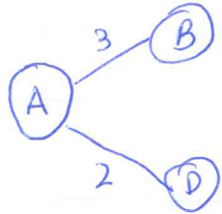
HELLO 5sec

ANNUNCIO $t = 0s$

$T = 2ms$

$T_e = 1ms$

\neq trascurabile

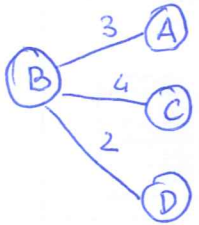


LSDB(A)

(A, B, 3)

(A, D, 2)

LSP	FROM	SEQ	AGE	
	A	1		LSDB(A)



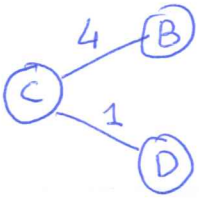
LSDB(B)

(B, A, 3)

(B, C, 4)

(B, D, 2)

LSP	B	1		LSDB(B)
-----	---	---	--	---------

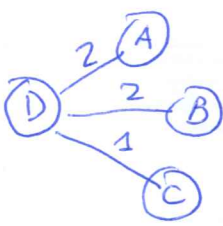


LSDB(C)

(C, B, 4)

(C, D, 1)

LSP	C	1		LSDB(C)
-----	---	---	--	---------



LSDB(D)

(D, A, 2)

(D, B, 2)

(D, C, 1)

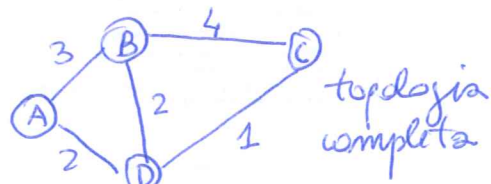
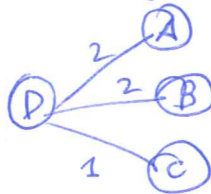
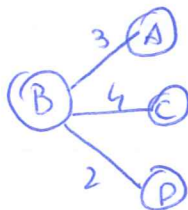
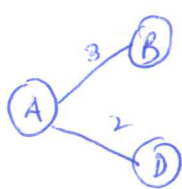
LSP	D	1		LSDB(D)
-----	---	---	--	---------

Dato la rete in figura seguire un protocollo Link State per ottenere le tabelle di Routing dei nodi. Si consideri un Hello packet con timer 5 sec. Si assuma che la rete possa essere omogenea, tutti i nodi avranno le proprie operazioni a $t=0s$, un T di 2ms e un T_e di 1ms. Si evidenzia il funzionamento del protocollo mostrando lo scambio di messaggi LSU tra i nodi della rete. Mostrare l'esecuzione dell'algoritmo di inoltro da parte del protocollo.

A $t = 5,006$

A ricevera da B e da D il loro LSP con le info del LSDB

$(A, B, 3)$ $(B, A, 3)$ $(D, A, 2)$
 $(A, D, 2)$ $(B, C, 4)$ $(D, B, 2)$ \Rightarrow $(A, B, 3)$
 $(B, D, 2)$ $(D, C, 1)$ $(B, C, 4)$
 $(B, D, 2)$ $(D, C, 1)$ $(D, B, 2)$
 $(A, D, 2)$ $(B, C, 4)$ $(D, A, 2)$



topologia completa

$t = 5,006$

in flooding A invia

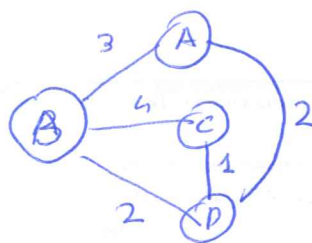
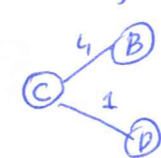
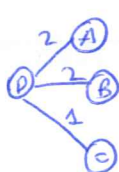
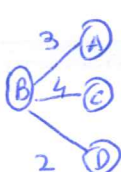
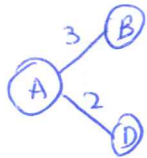
LSP verso B e verso D

che saranno ricevuti al tempo

$t = 5,009$ s

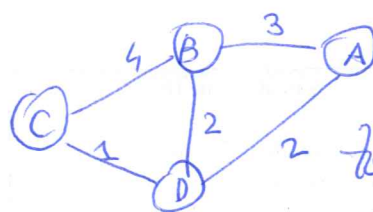
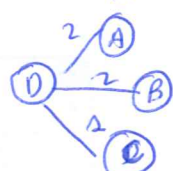
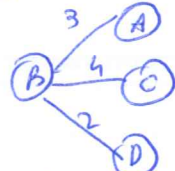
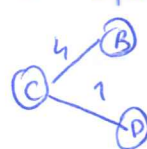
B $t = 5,006$ ricevera da A, C, D

$(B, A, 3)$ $(A, B, 3)$ $(C, B, 4)$ $(D, A, 2)$
 $(B, C, 4)$ $(A, D, 2)$ $(C, D, 1)$ $(D, B, 2)$
 $(B, D, 2)$ $(D, C, 1)$



topologia completa

C $t = 5,006$ ricevera da B, D



topologia completa

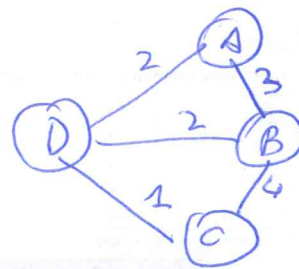
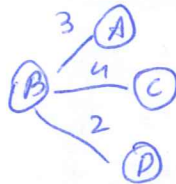
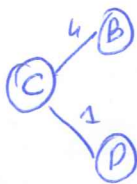
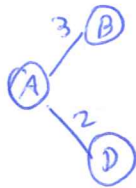
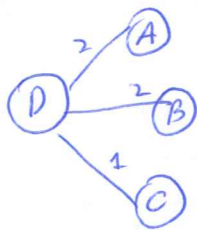
$(C, B, 4)$
 $(C, D, 1)$

$(B, A, 3)$
 $(B, C, 4)$
 $(B, D, 2)$

$(D, A, 2)$
 $(D, B, 2)$
 $(D, C, 1)$

D t = 5,006 ~~ar~~ ~~un~~ ~~vera~~ da A, B, C

(D, A, 2) (A, B, 3) (C, B, 4) (B, A, 3)
 (D, B, 2) (A, D, 2) (C, D, 1) (~~B, C, 4~~)
 (D, C, 1) (~~B, D, 2~~)



topologia completa

	A	B	C	D
A	/	3/A	∞	(2/A)
AD	-	(3/A)	3/D	-
ADB	-	-	(3/D)	-
ADBC	-	-	-	-

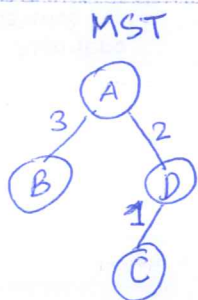
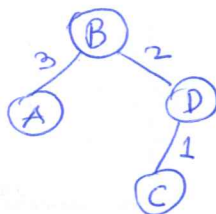


TABELA ROUTING

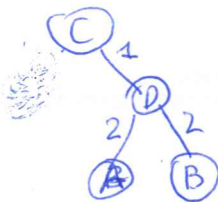
TO	NEXT	COST
B	B	3
D	D	2
C	D	3

	A	B	C	D
B	3/B	/	4/B	(2/B)
BD	(3/B)	-	3/D	-
BDA	-	-	(3/D)	-
BDAC	-	-	-	-



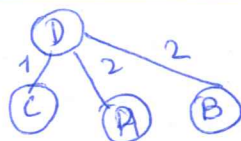
TO	NEXT	COST
A	A	3
D	D	2
C	D	3

	A	B	C	D
C	4/C	/	/	(1/D)
CD	(3/D)	3/D	-	-
COA	-	(3/D)	-	-
CDAB	-	-	-	-



TO	NEXT	COST
D	D	1
A	D	3
B	D	3

	A	B	C	D
D	2/D	2/D	(1/D)	-
DC	(2/D)	2/D	-	-
DCA	-	(2/D)	-	-
DCAB	-	-	-	-



TO	NEXT	COST
C	C	1
A	A	2
B	B	2