

Hello greetings ogni 5 sec

TTL = 1

rete sincrona = l'ini 2to è per tutti
nello stesso momento

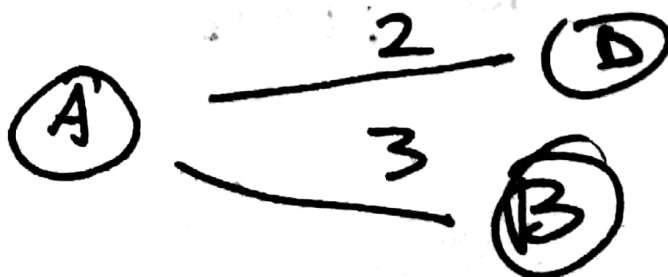
tutti i nodi portano a \emptyset

Tempo di propagazione = 2 ms

Tempo di elaborazione Nodo = 1 ms

2 ms + 1 ms di elaborazione a

3 ms i vicini ~~si~~ si conoscono e possono
costruire una struttura mentale e immediata
tabella di routing
partendo dal Nodo A



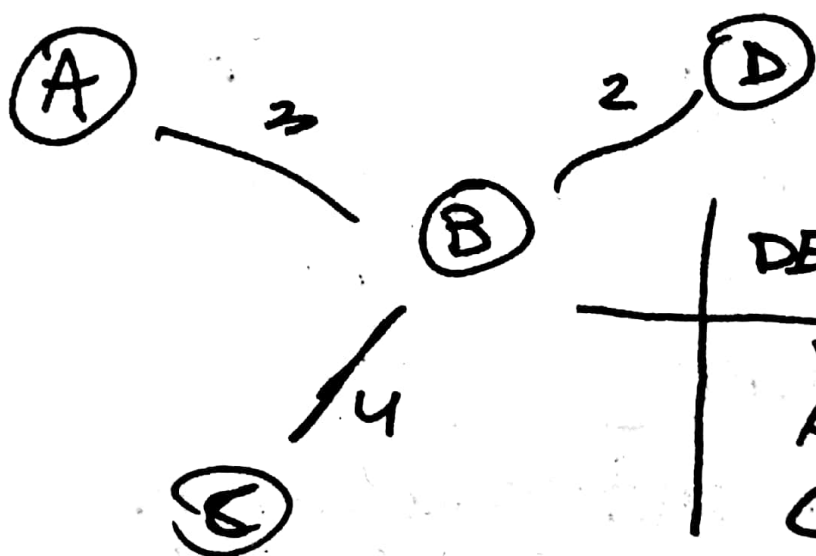
DEST	NEXT HOP	COSTO
B	B	3
D	D	2

A	A	1	1	LSDBA-1
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$$2 + 1 + \cancel{1} + 2 = 5m$$

8 5 ms tutti hanno inviato il proprio LSA
in Flooding con TTL=1 (solo i vicini)

NODO B

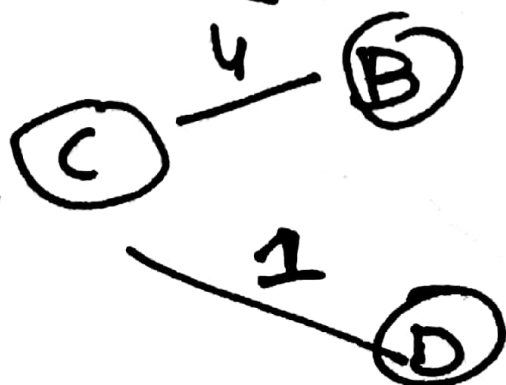


DEST	NEXT	COSTO
D	D	2
A	A	3
C	C	4

B	B	1	1	LSDB
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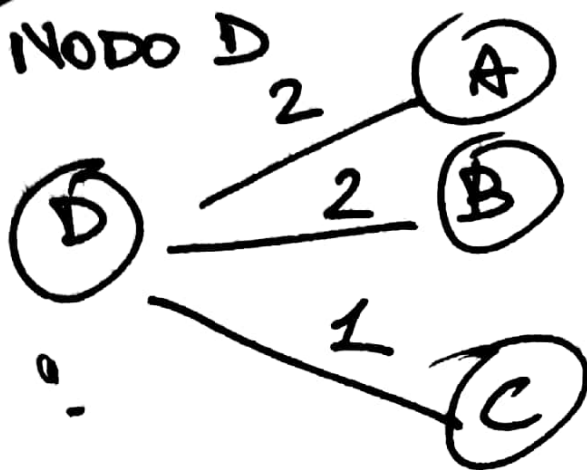
→ AGGIUNGE I VICINI
A 5ms

NODO C



DEST	NEXT	COSTO
B	B	4
D	D	1

B	C	1	1	LSDBC
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DEST	NEXT	COSTO
A	A	2
B	B	2
C	C	1

D	D	1	1	LSDDBD1
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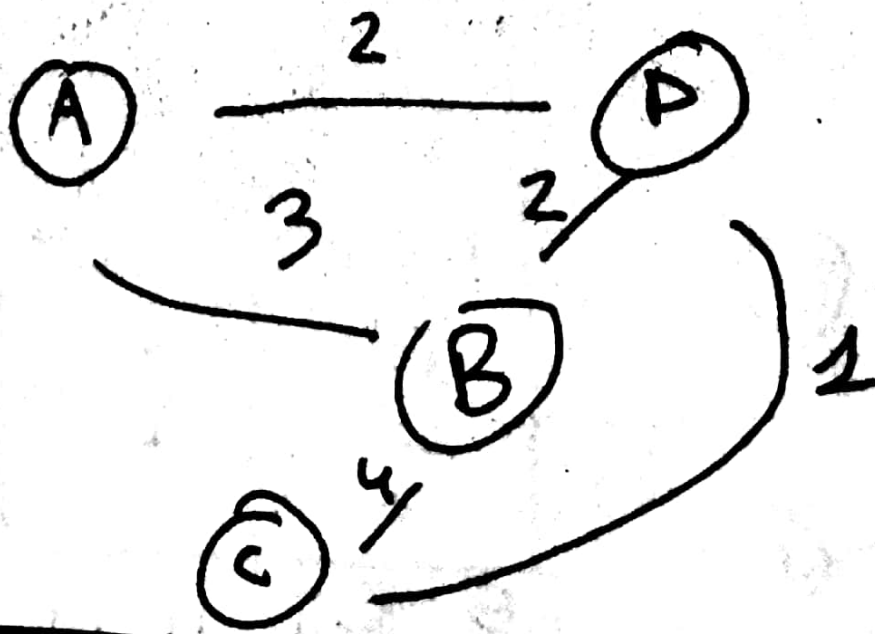
TABELLA EVENTI

COSA	CHI	QUANDO
LSDBA1	B, D	$t = 5$
LSDBB1	A, D, C	$t = 5$
LSA C1	B, D	$t = 5$
LSA D1	A, B, C	$t = 5$

Ora siccome sono tutti schedulati allo stesso tempo vediamo un nodo qualsiasi

A → riceve LSA da B1 e D1

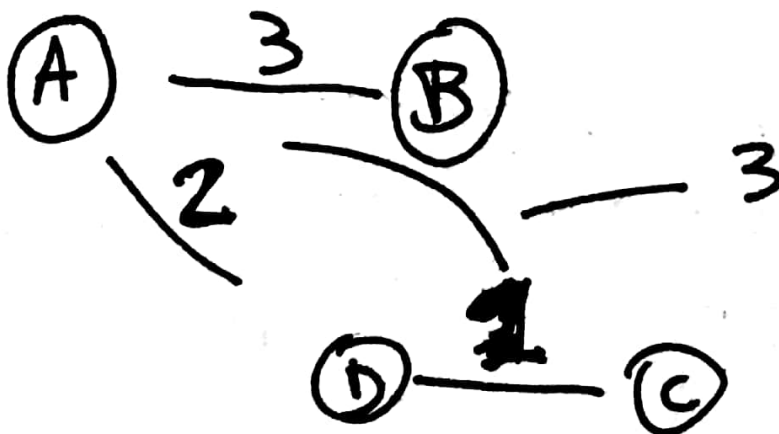
IL RISULTATO SARA' L'INTERA TOPOLOGIA



su questa tipologia possiamo lanciare l'algoritmo per calcolare il MST.

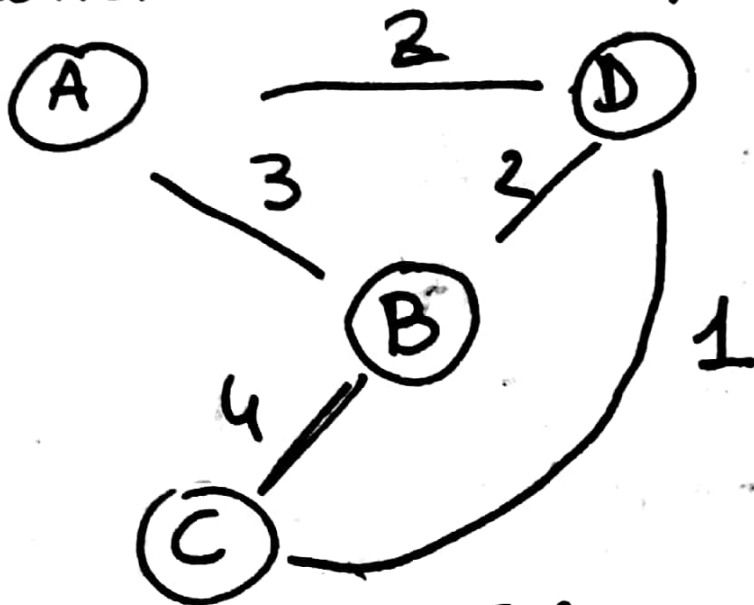
STEP	N	B	C	D
0	A	3/ A	∞	2/ A
1	A,D	3/ A	3/D	--
2	A,D,B	--	3/D	--
3	A,D,B,C	--	--	--

↑
RICAVIAMO IL MST



DEST	NEXT	COSTO
B	B	3
C	B	3
D	D	2

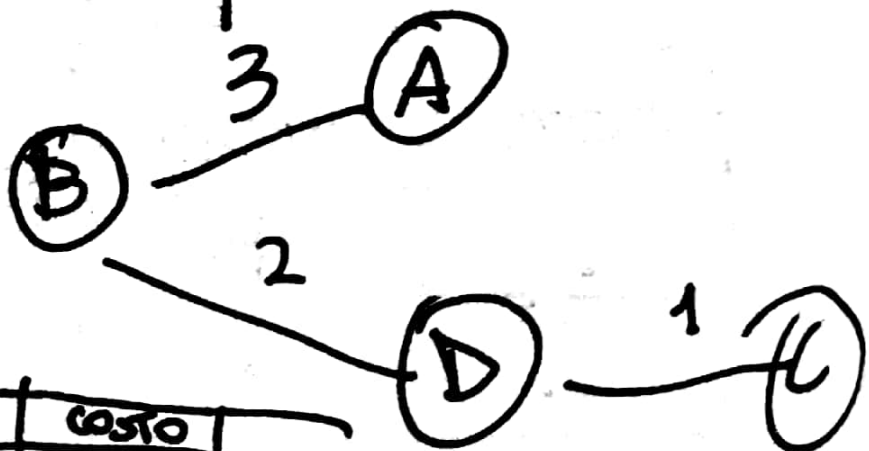
NODO B \rightarrow LA A1 \rightarrow C1 \rightarrow D1
 il risultato è l'intera topologia



DISKSTRA

STEP	N	A	C	D
0	B	3/B	4/B	2/B
1	B, D	3/B	3/D	--
2	B, D, A	--	3/D	--
3	B, D, A, C	--	--	--

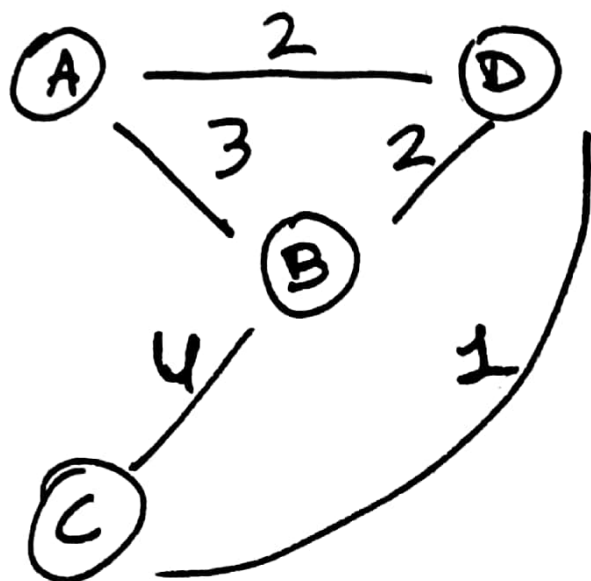
↑
HST



DEST	NEXT	COSTO
A	A	3
D	D	2
C	D	3

NODO C \rightarrow LSA B1, C1

RISULTATO SARA' LA TOPOLOGIA COMPLETA

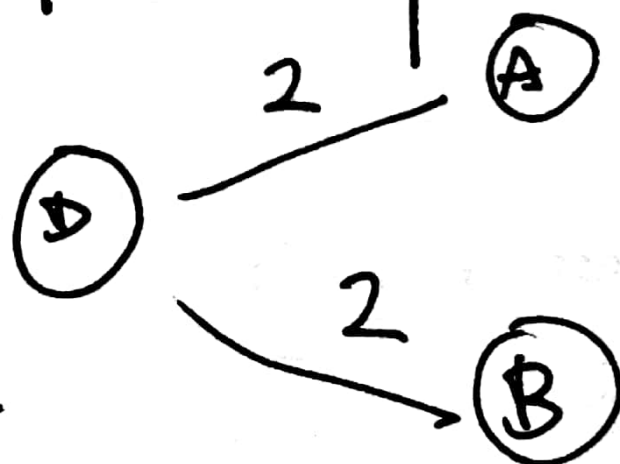


DIJKSTRA A PARTIRE DAL NODO C

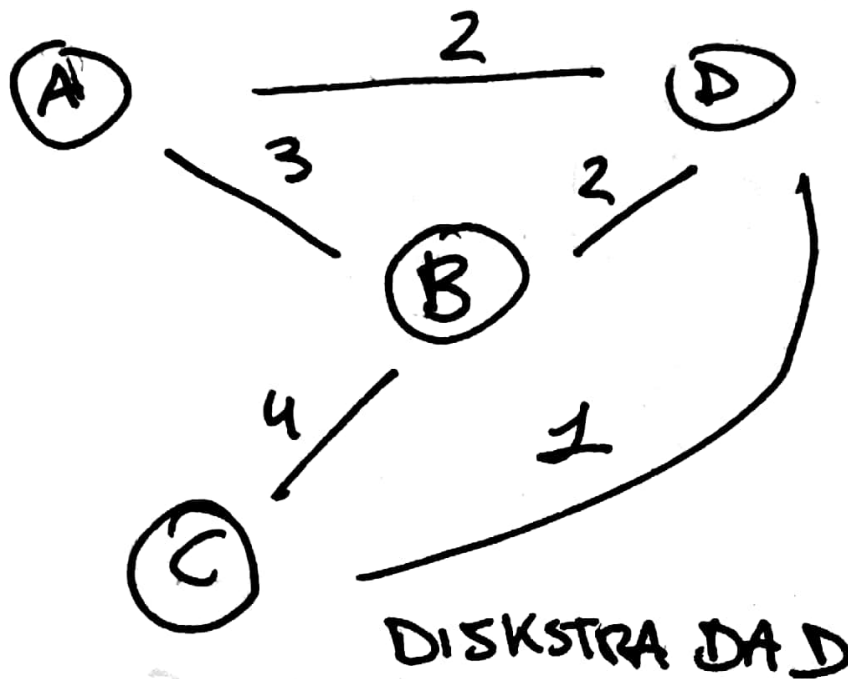
STEP	N	A	B	D
0	C	∞	4/C	1/C
1	C, D	3/D	3/D	--
2	C, D, A	--	3/D	--
3	C, D, A, B	--	--	--

MST

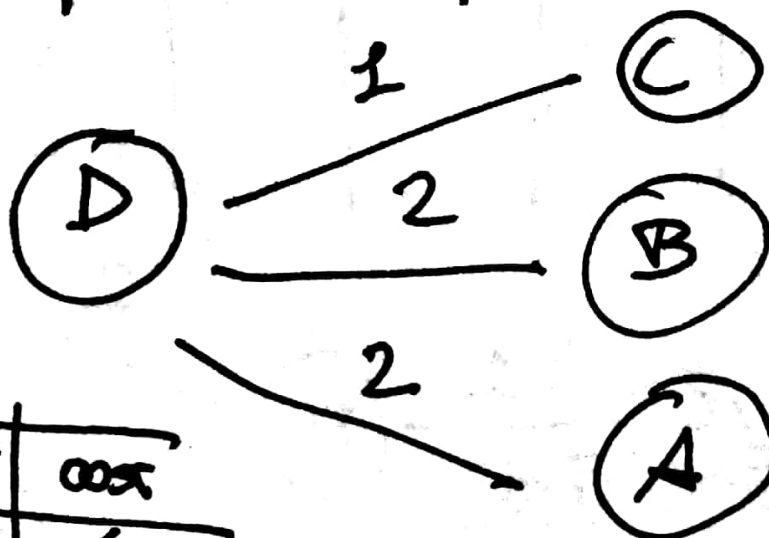
DEST	NEXT	COSTO
D	D	1
A	D	3
B	D	3



NODO D → riceve LSA-A1-C1
il risultato è l'intera topologia



STEP	N	A	B	C
0	D	2/D	2/D	1/C
1	D, C	2/D	2/D	--
2	D, C, A	--	2/D	--
3	D, C, A, B	--	--	--



DEST	NEXT	COST
C	C	1
B	B	2
A	A	2

THE END