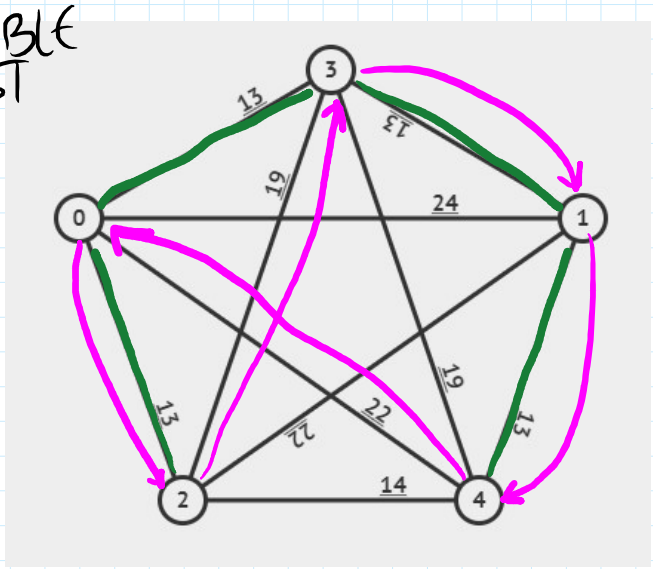
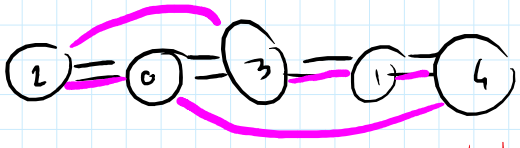
Esercizi TSP metrico

martedì 8 giugno 2021 16:10

DOUBLE MST



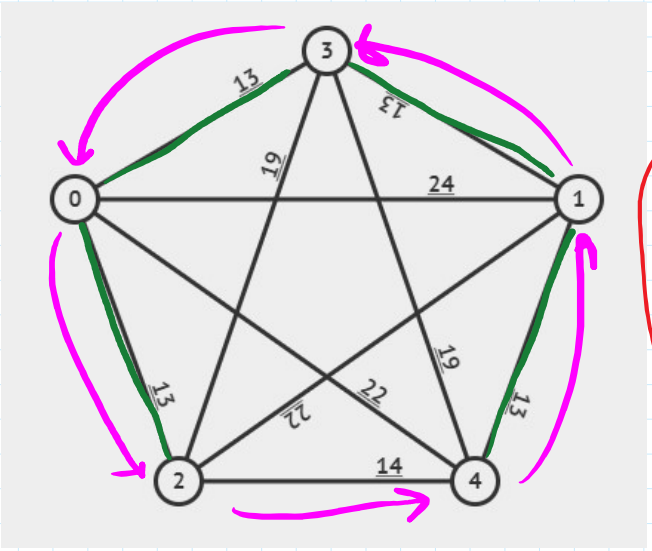
MULTIGRAFO



CICLO: 0 2 0 3 1 4 1 3 0

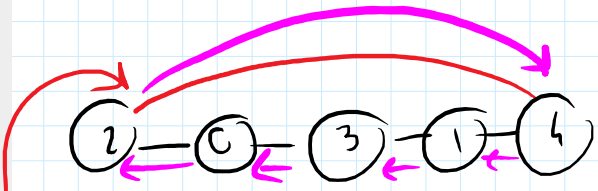
TOUR

CHRISTOFIDES



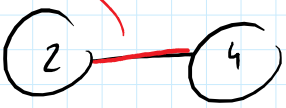
TOUR

MST

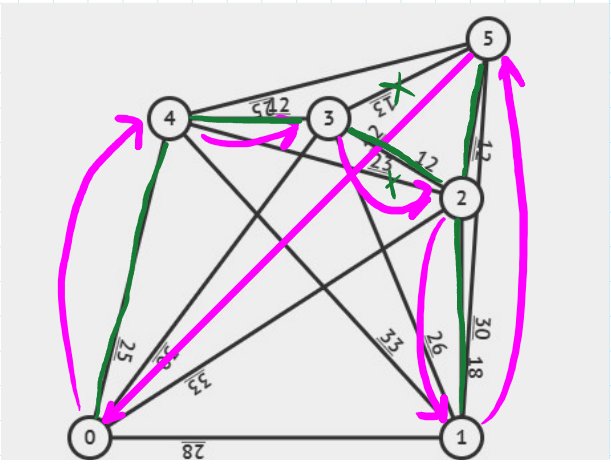


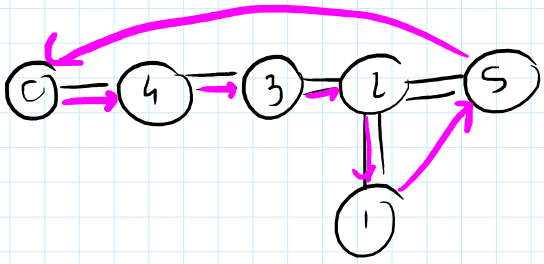
CICLO: 0 2 4 1 3 0

GRAFO gr. disposti

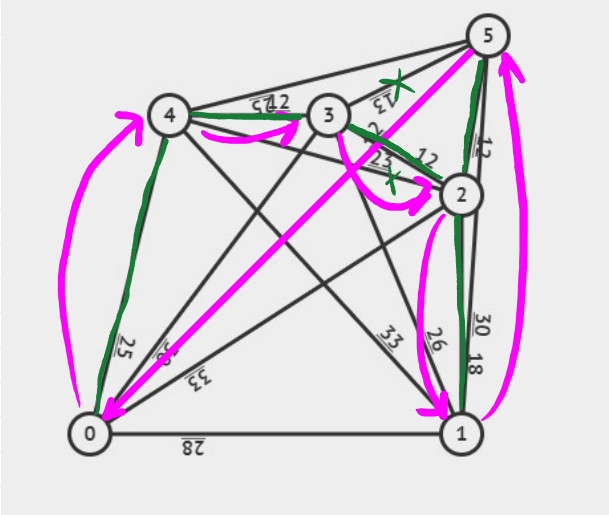


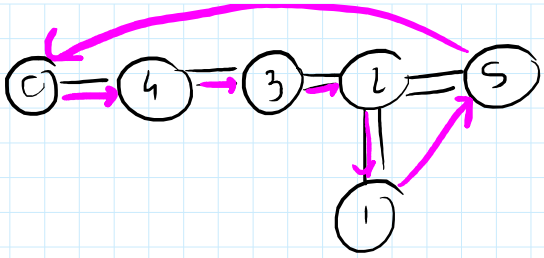
DOUBLE MST





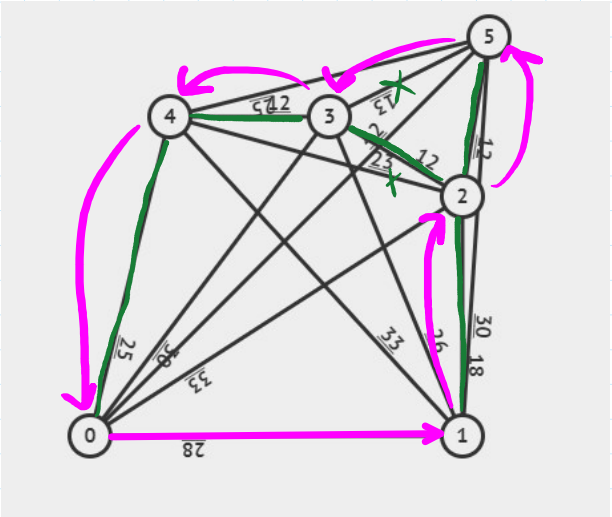
CICLO: 0 4 3 2 1 2 5 2 3 4 0



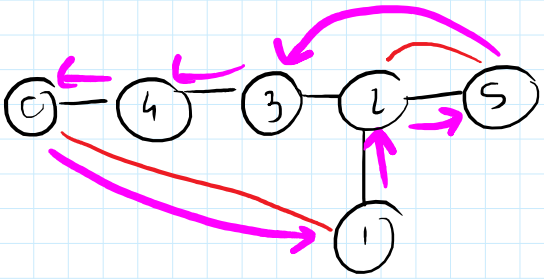


CICLO: 0 4 3 2 1 2 5 2 3 4 0

CHRISTOFIDES:

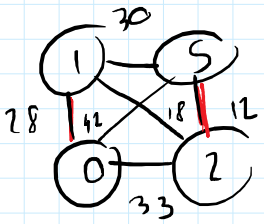


MST



CICLO: 0 1 2 5 2 3 4 0

DISPARI:

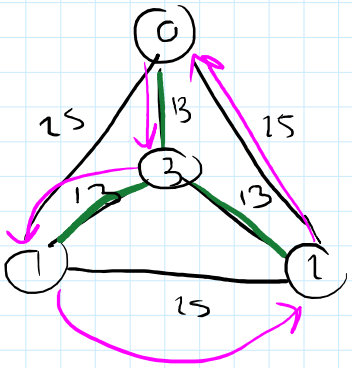


(0,0), (1,5)

MATCHING

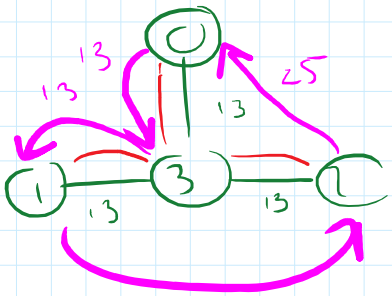
CHIUSO

DMST



COSTO = 76

MST → G'



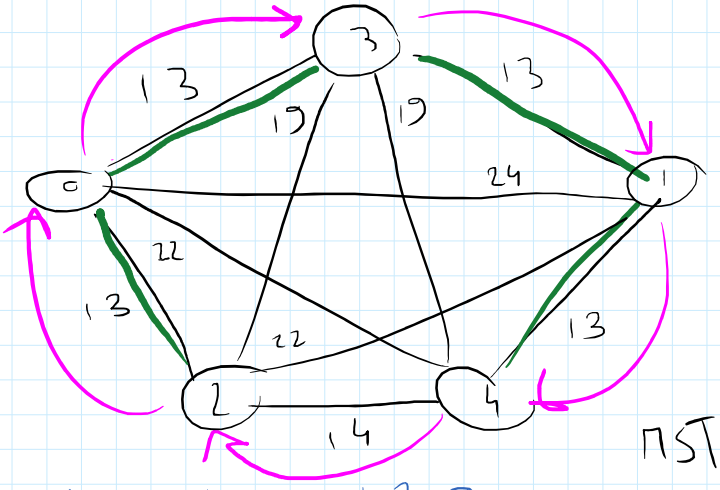
0 3 1 3 2 3 0 CICLO E

0 3 1 2 1 0

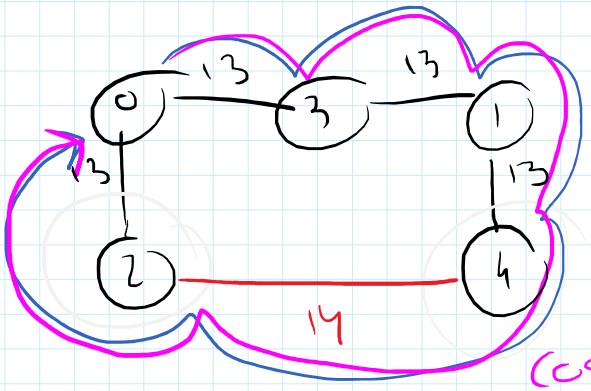
TOUR

25

CHRISTOFIDES:



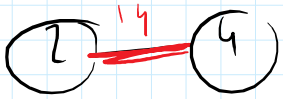
CICLO EULERIANO: 0 3 1 4 2 0



COSTO 66

MST

MST dispari



6.e. somma gradi pari

$$\sum_{i \in N} deg(i) = deg(N) \quad \text{pari}$$

$N = E \cup O$, $E \cap O = \emptyset$, $E = \{i \in N \mid deg(i) \text{ è pari}\}$

$O = \{i \in N \mid deg(i) \text{ dispari}\}$

$$\left(\sum_{i \in E} deg(i) + \sum_{i \in O} deg(i) \right) \text{è pari}$$

$$\Rightarrow \sum_{i \in O} deg(i) \text{ è pari}$$

$\Rightarrow |O| =$ num. nodi gr. disp. è pari