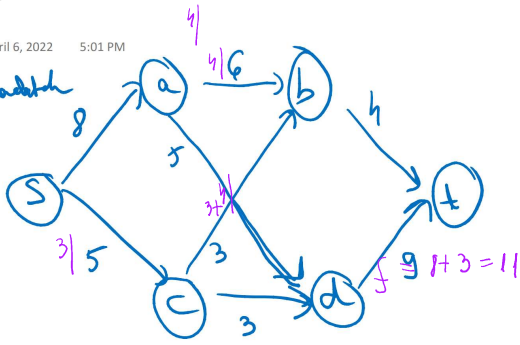


[8] (8)

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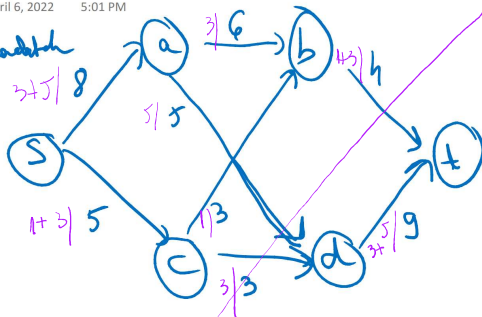
Folgende Ladung



$s-a-b-t : 4$   
 $s-a-d-t : \min\{8-4, 5, 9\} = 4$   
 $s-c-d-t : \min\{5, 3, 9-4\} = 3$

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Folgende Ladung

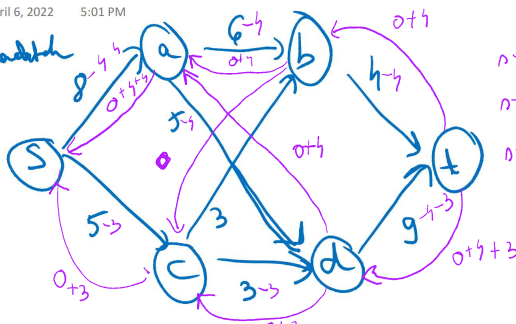


$s-a-d-t : 5$   
 $s-a-b-t : 3$   
 $s-c-d-t : 3$   
 $s-c-d-t : 1$   
12

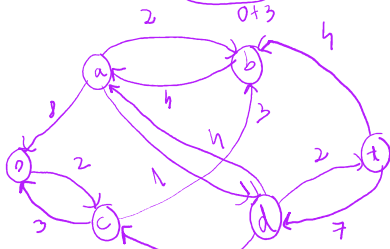
Ford-Fulkerson alg.

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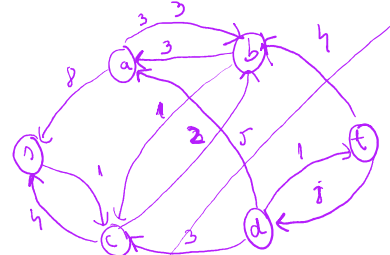
Folgende Ladung



$s-a-b-t : \min\{8, 6, 4\} = 4$   
 $s-a-d-t : \min\{4, 5, 9\} = 4$   
 $s-c-d-t : \min\{5, 3, 9-4\} = 3$



$s-c-b-a-d-t : \min\{2, 3, 4, 1, 2\} = 1$



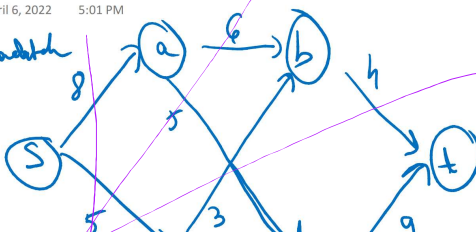
$s-c-b-a$

$f_{max} = 12$

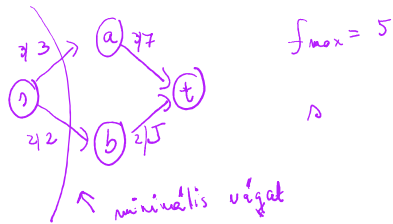
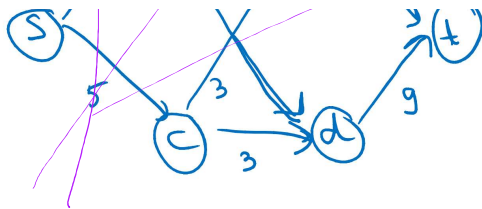
Paigat:

Wednesday, April 6, 2022 5:01 PM

Folgende Ladung



$A, \bar{A}$

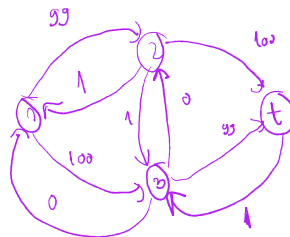


Ford-Fulkerson algoritmus elemzése

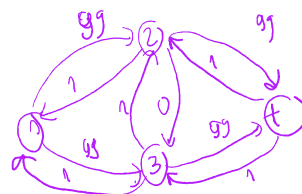
Hány lépés alatt találjuk meg a maximális folyamot?

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- ①
- s-2-t : 100
  - s-3-t : 100
  - 2 lépés!
- ②
- s-2-3-t : 1
  - s-3-2-t : 1

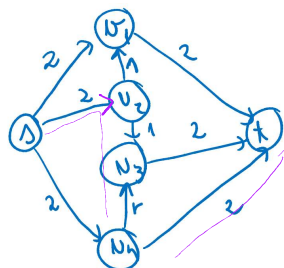


s-3-2-t : 1



200 lépés → exponenciálisan

Nagy számok esetén:



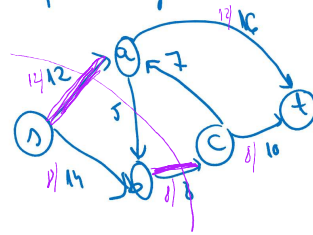
$$r = \frac{\sqrt{5}-1}{2} \quad r^2 = 1-r$$

$$s-u_2-u_3-t \Rightarrow 1$$

$$s-u_1-t \Rightarrow 2$$

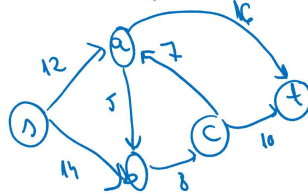
$$s-u_4-u_3-t \Rightarrow$$

Pumpile algoritmus:

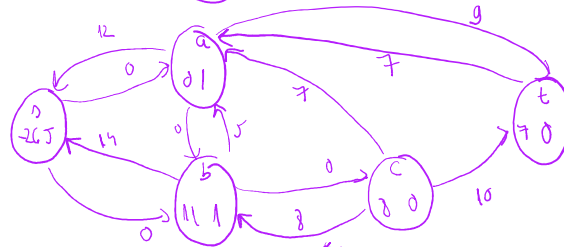
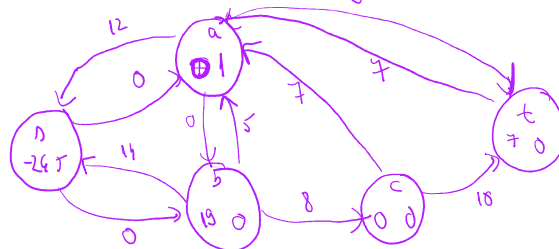
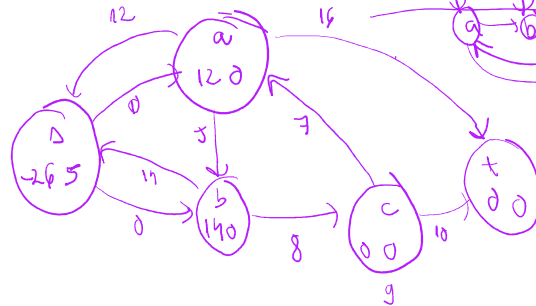
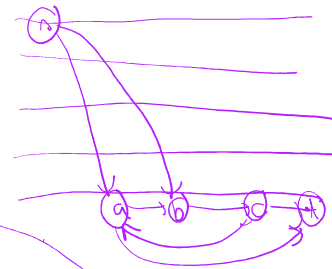


$n-b$   $f_{max} = 28$

Pumpile algoritmus:

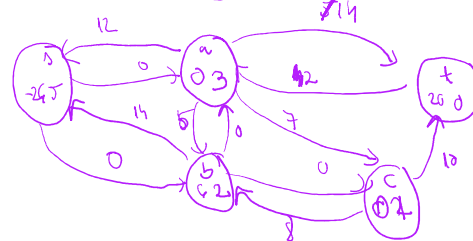


előző értéke új értéke



$c \rightarrow t$  8+7

$b \rightarrow a$  5  
 $a \rightarrow t$  5



$b \rightarrow c$  8, 2

új érték

