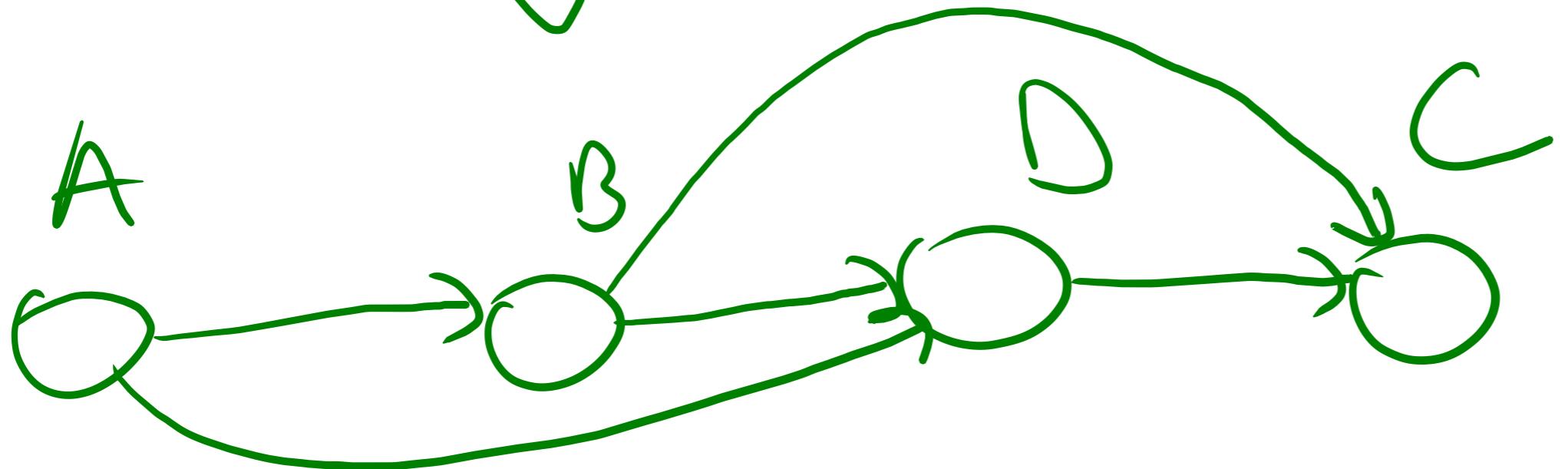
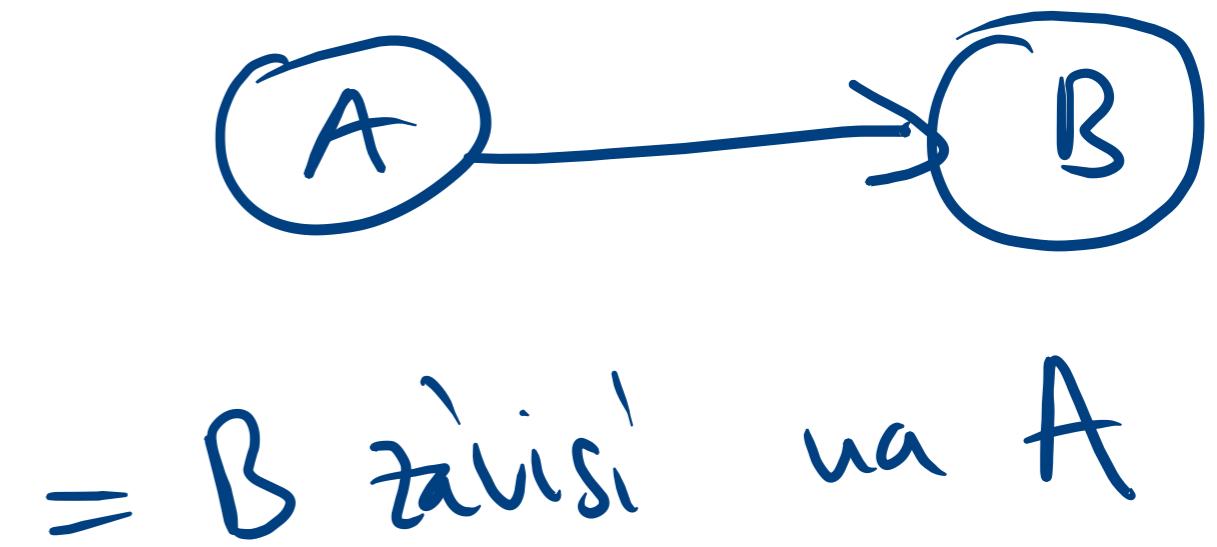
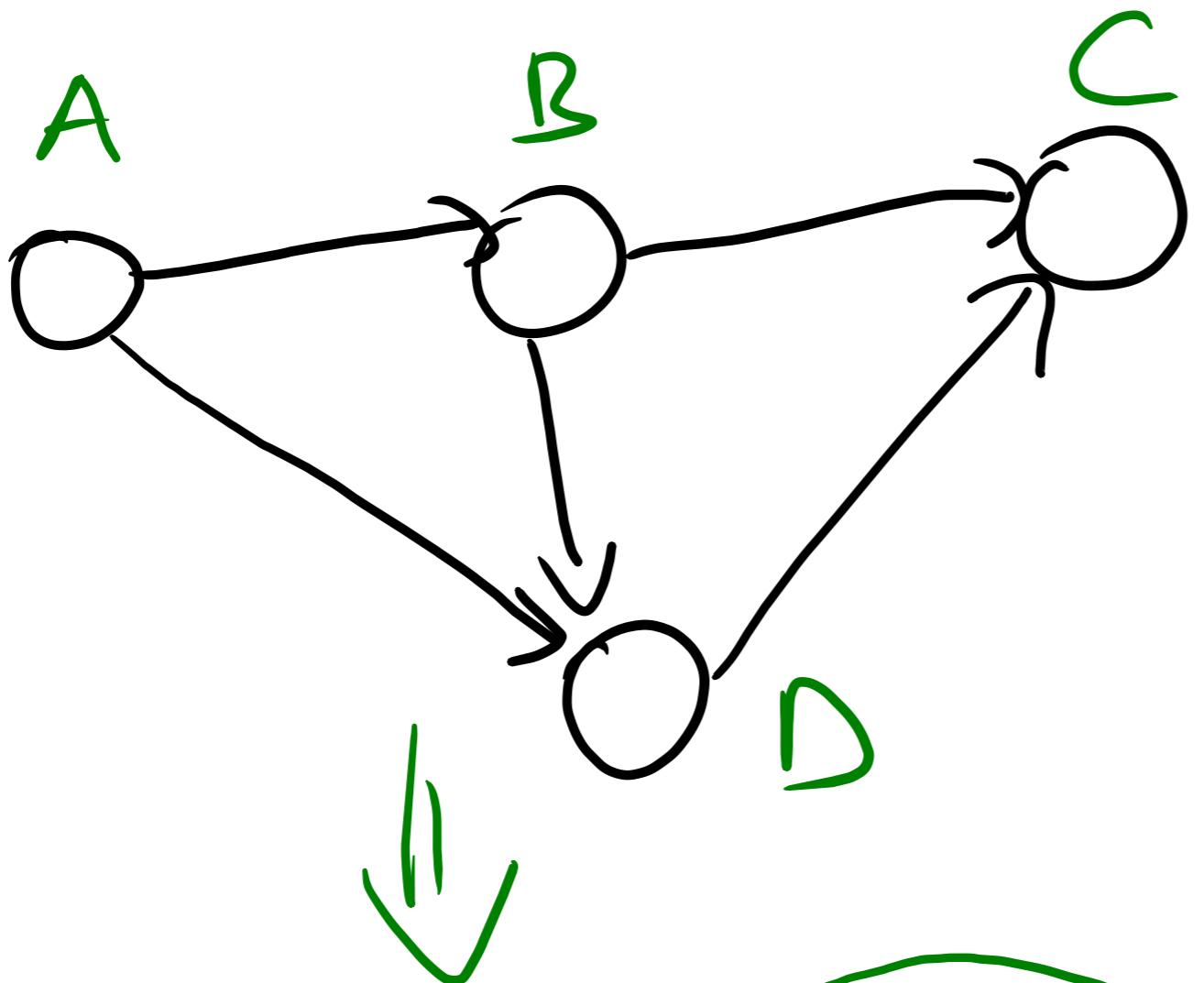


DAG



TOPOLOGICKÉ RÁZENÍ

11/16

TRAMÍEKY

2.

12/15

KALTOVÍ

3.

PAŠEK

6/7 ↗

KOŠILE

RENATA

SAKO 3/4 9.

1. 11/18

PONORKA

4.

BOŤA

18 6.

2/5 3.

HODINKY

9/10

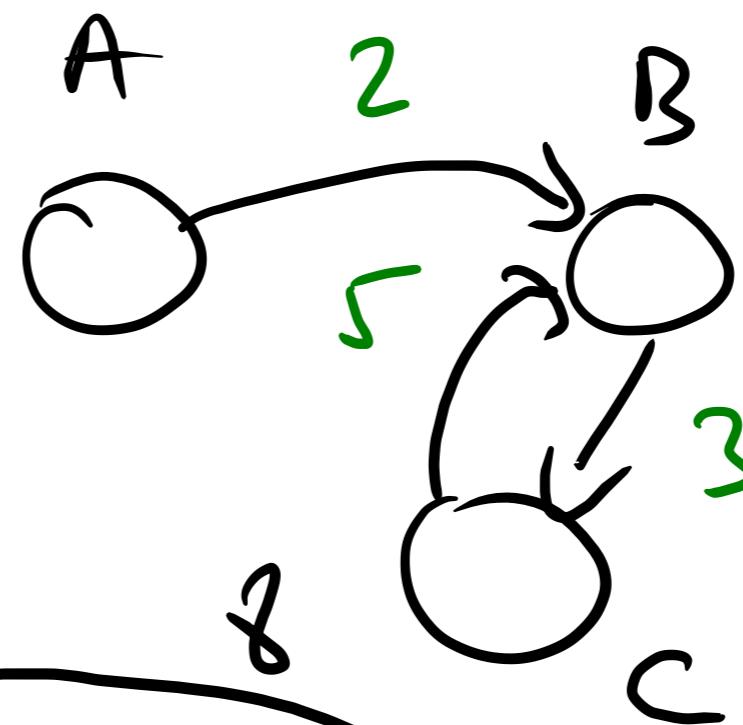
J.

DFS

MATICE

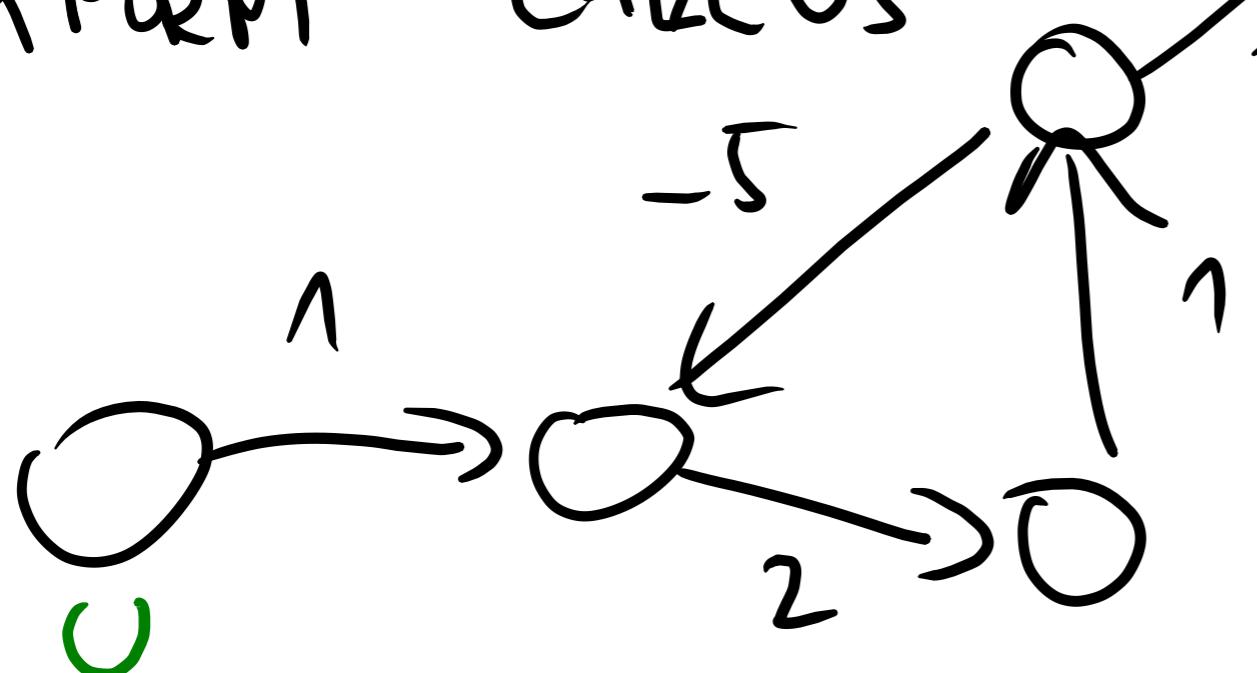
Vzdálenosti

0	2	8
8	0	3
2	5	0



2. A'POMÍ

CYKLUS



Où.

UAK

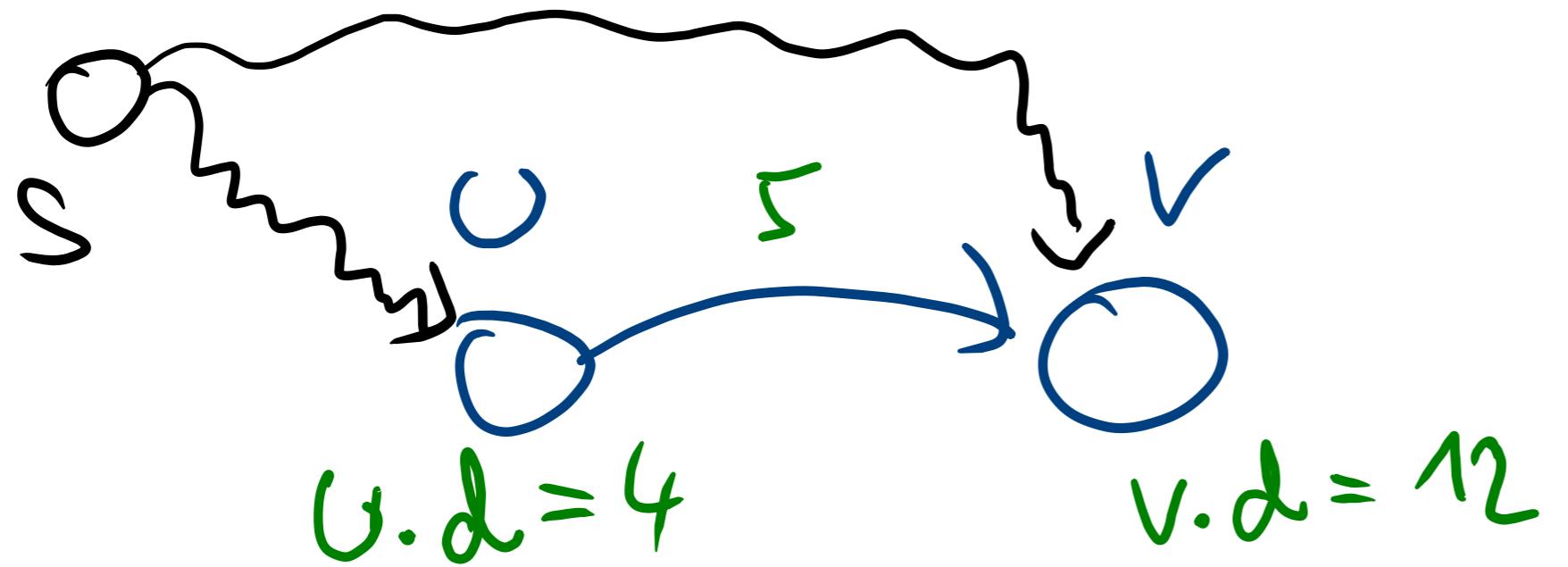
DETĚDVAŘI

CYKLUS

V GRATU?

RELAXACE

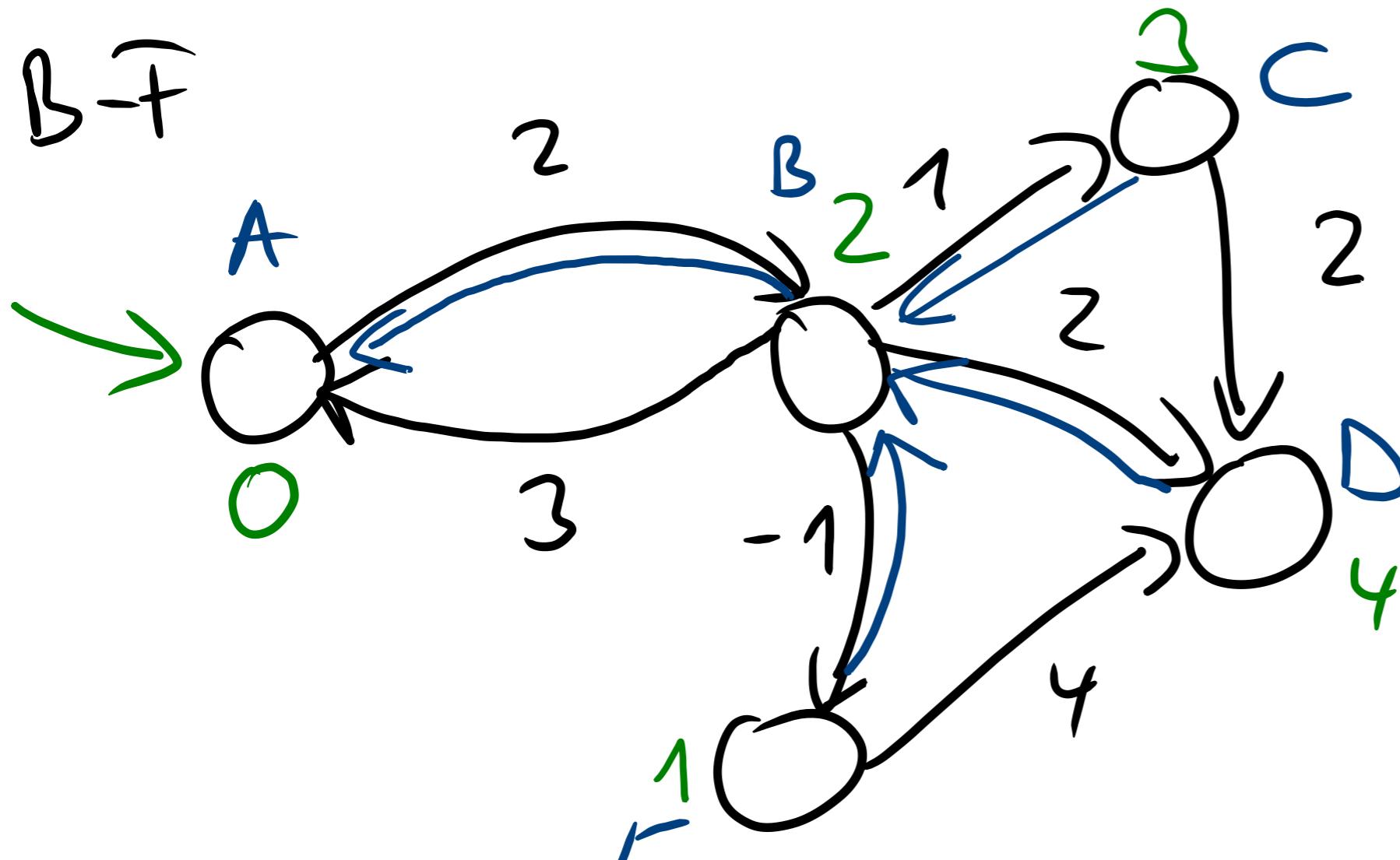
TIRAM



IF $v.d > u.d + \text{we}(u, v)$:

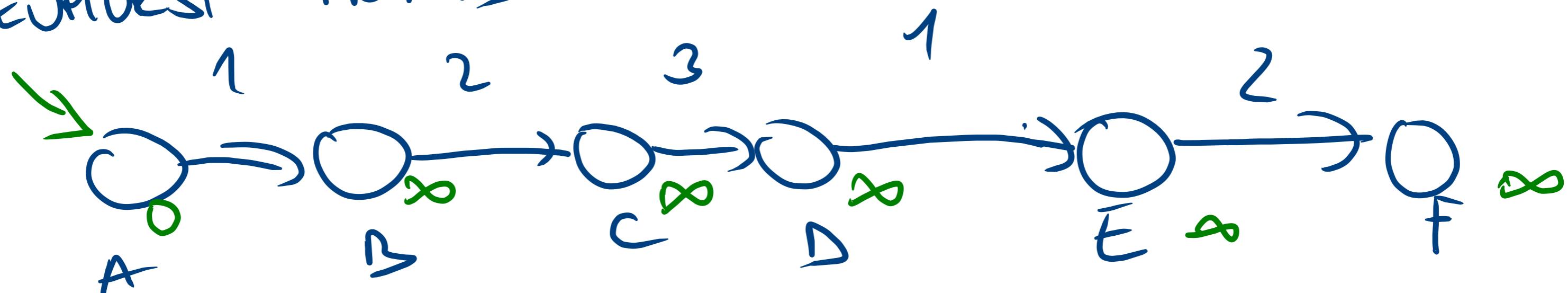
$$v.d = u.d + \text{we}(u, v)$$

$$v.p = U$$



SLOVÄTOST
 $G(M \cdot E)$

NEJMOCÍ
 PRÍPAD

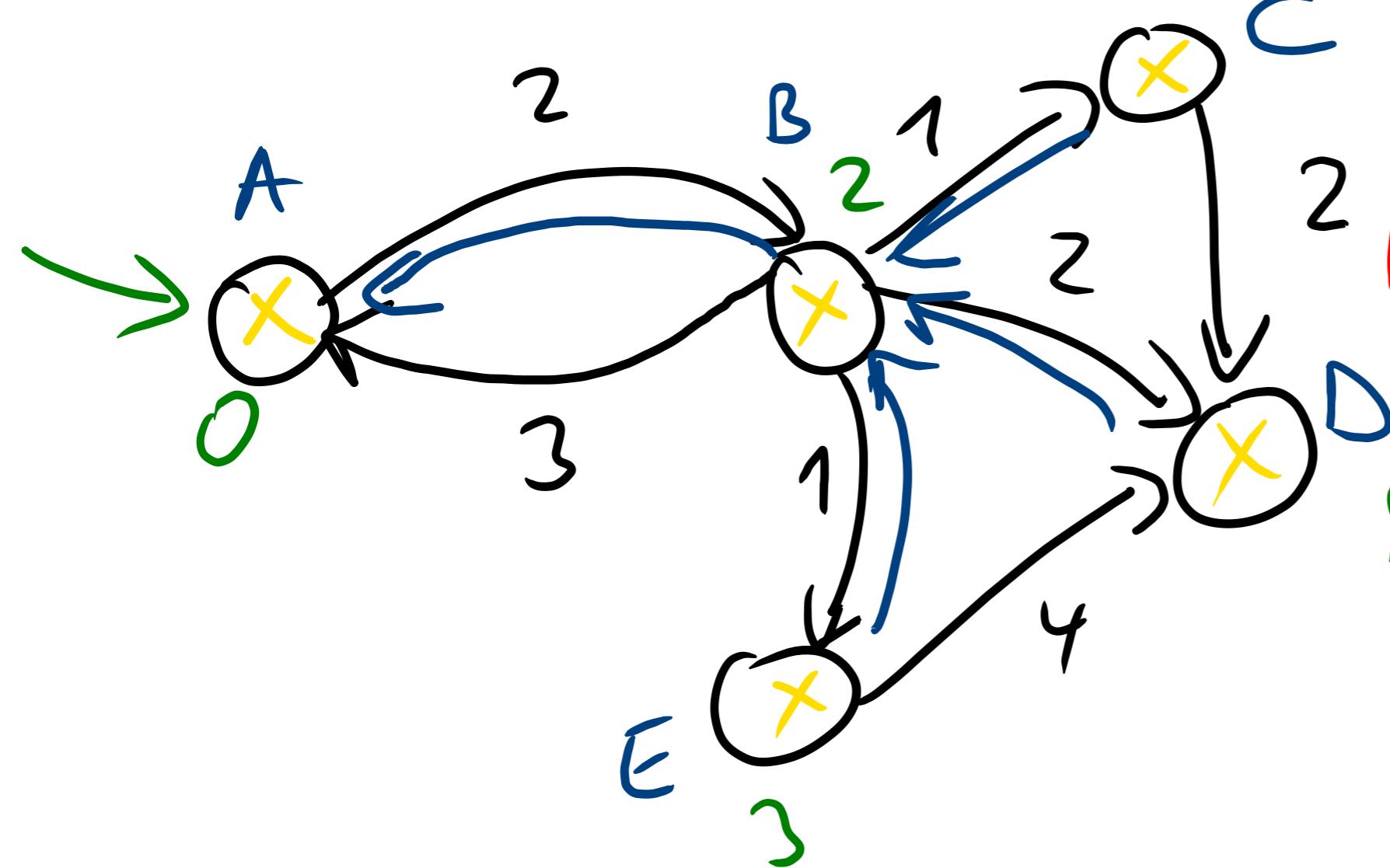


DIJKSTRA

→ POŽADUJE Kladné ohodnocení hran

SLOŽITOSŤ :

$$O(|V| \log |V| + |E| \cdot \log |V|) = O(|V| \log(|V| + |E|))$$



```

function Dijkstra( $G = (V, E, w_e)$ ,  $s$ ) is
     $\forall v \in V : v.d \leftarrow \infty$ 
     $s.d \leftarrow 0$ 
     $Q \leftarrow V$ 
    while  $Q$  není prázdná do
         $u \leftarrow t \in Q$  s minimální  $t.d$ 
        Odstraň  $u$  z  $Q$ 
        for all  $v : (u, v) \in E$  do
            if  $v.d > u.d + w_e(u, v)$  then
                 $v.d \leftarrow u.d + w_e(u, v)$ 
        fi
    done
    done
end

```

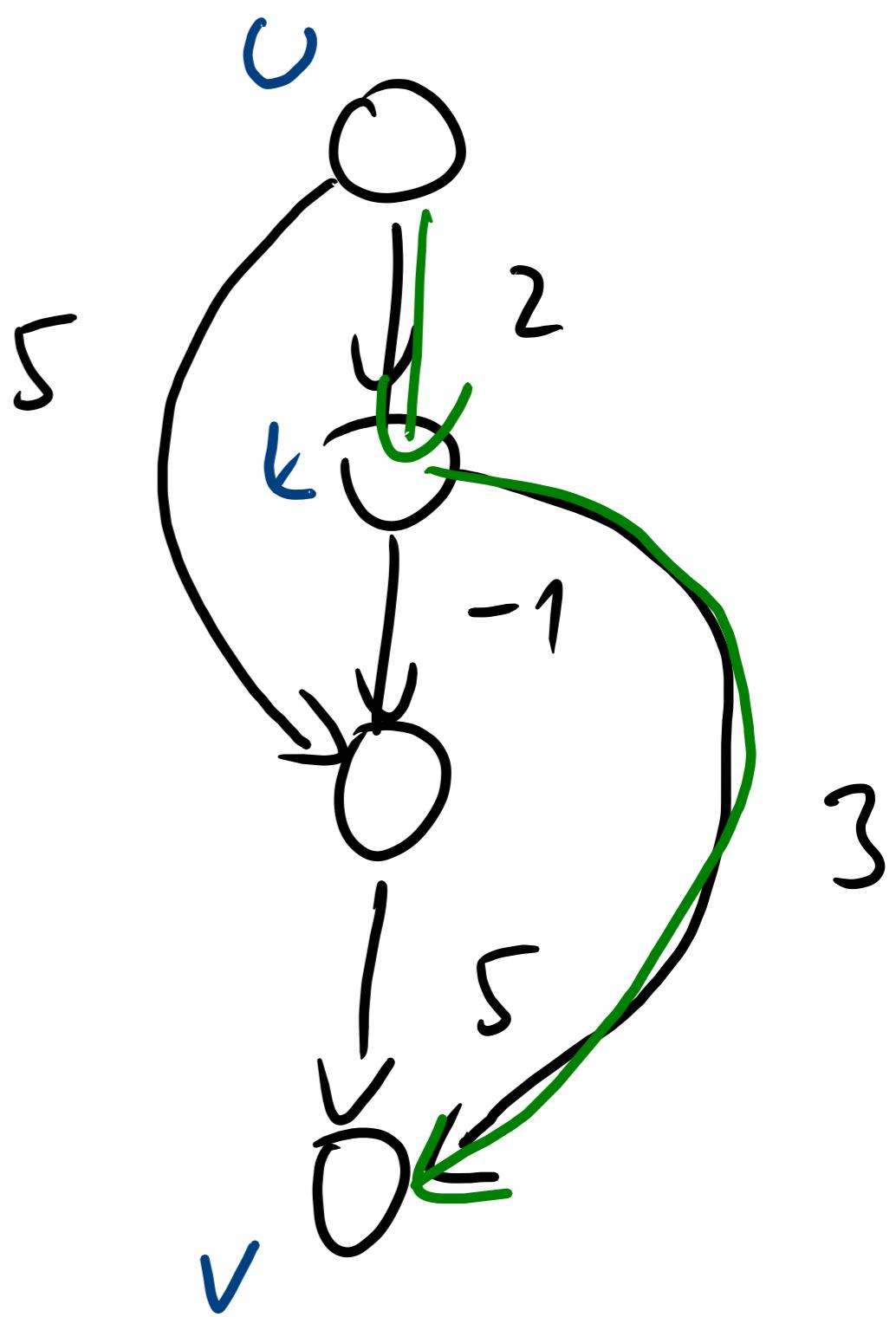
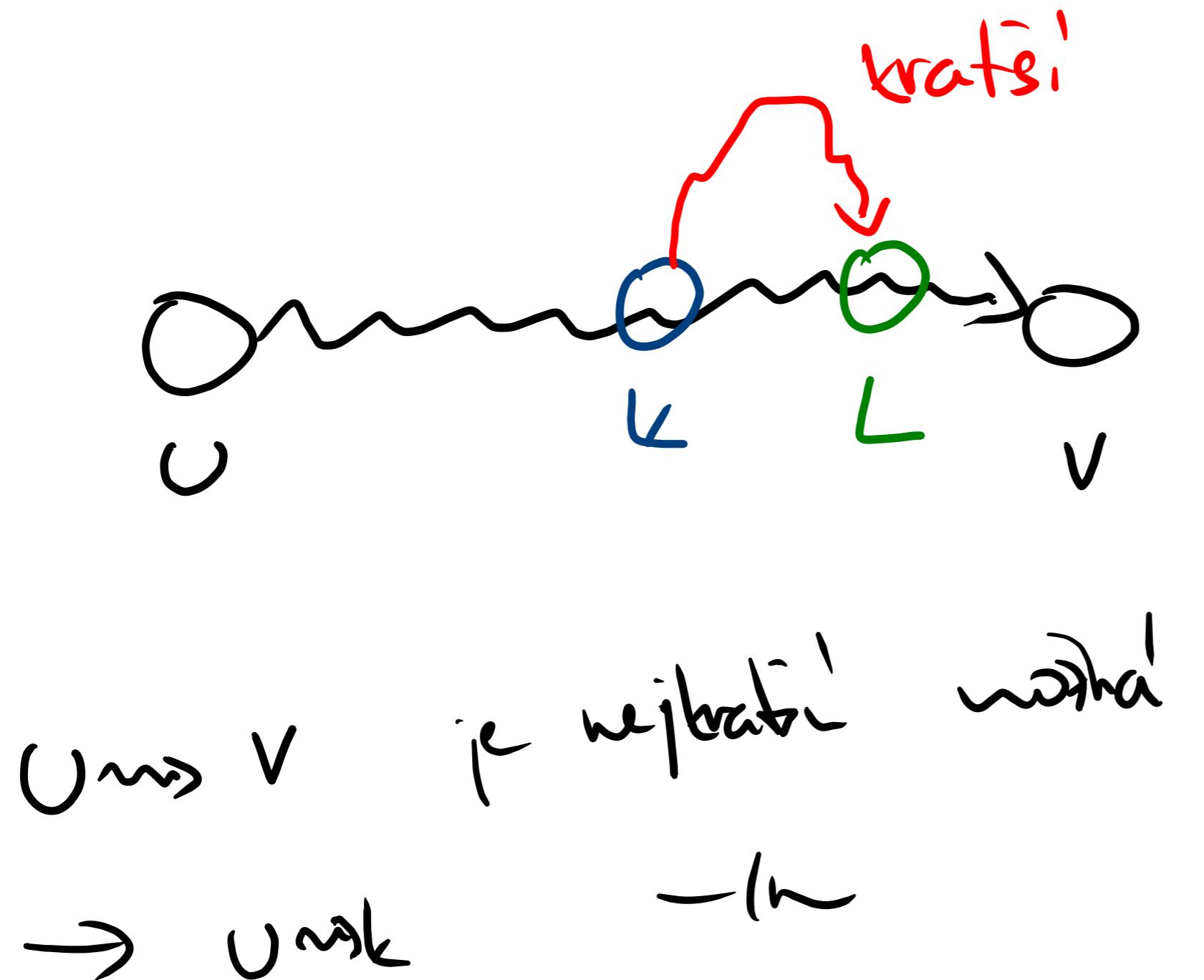
$|V|$ iterací

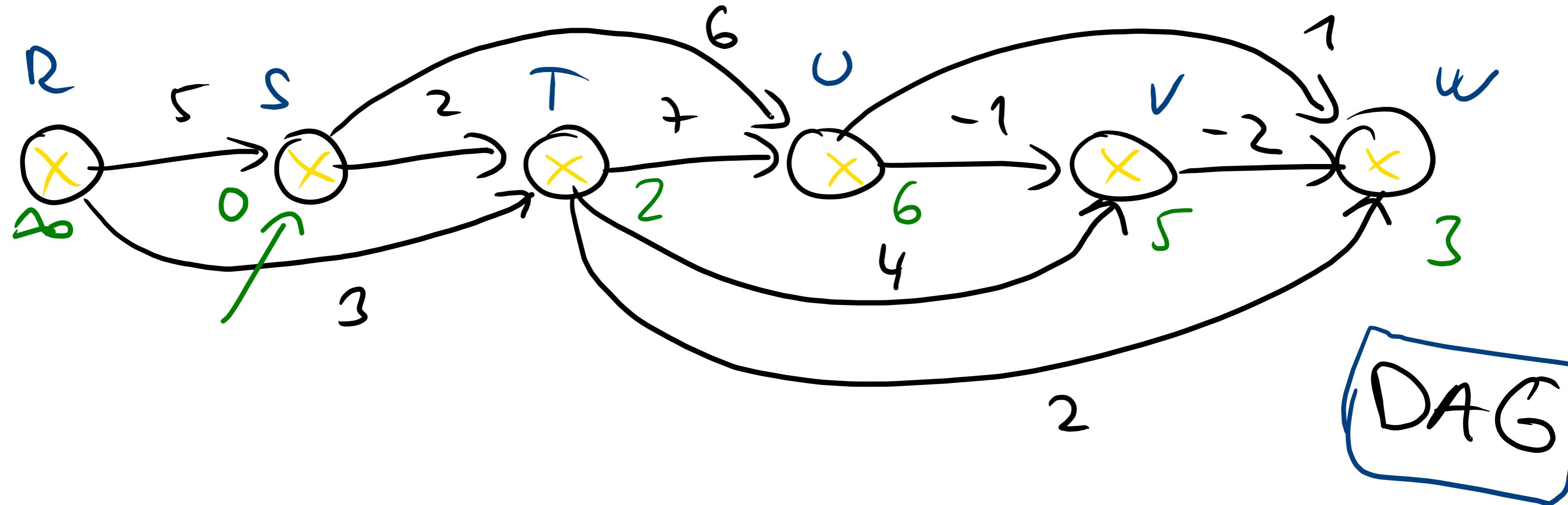
EXTRACT MIN

$\log |V| \cdot |E|$

snížené kříče

$Q =$ dim'qu' HALDA
(PRIORITNÍ FRONTA)





SLOTTOST :

 $O(|V| + |E|)$