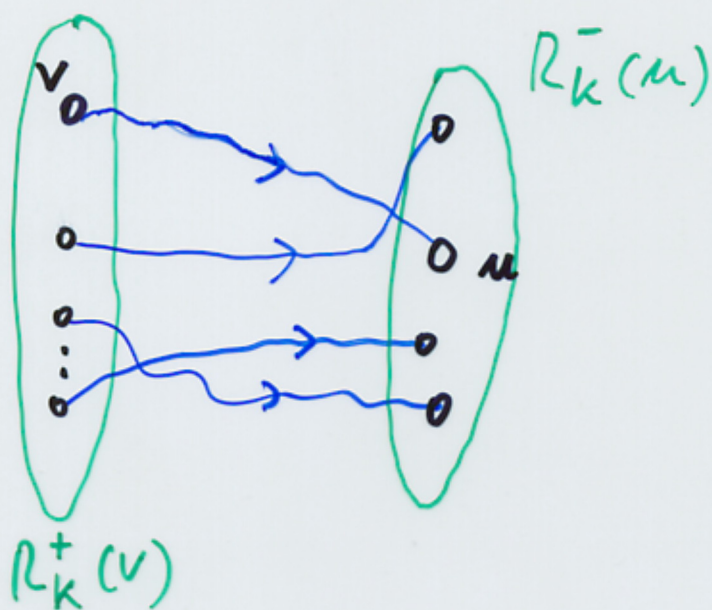


$D$  minimal indegree  $\geq 1$ , outdegree  $\geq 1$  ⑧  
 $k \geq 1, v \in V(D)$ .

For each  $u \in N_k^+(R_k^+(v))$  we have  
 $N_k^+(R_k^+(v)) = R_k^-(u)$



$D$  locally finite, transitive,  $k \geq 1$ .

If  $R_k^+(v)$  or  $R_k^-(v)$  is finite for some (and hence any)  $v \in V(D)$ , then  $R_k^+(v)$  and  $R_k^-(v)$  are both finite and

$$\frac{|R_k^+(v)|}{|R_k^-(v)|} = \left( \frac{d^-}{d^+} \right)^k$$