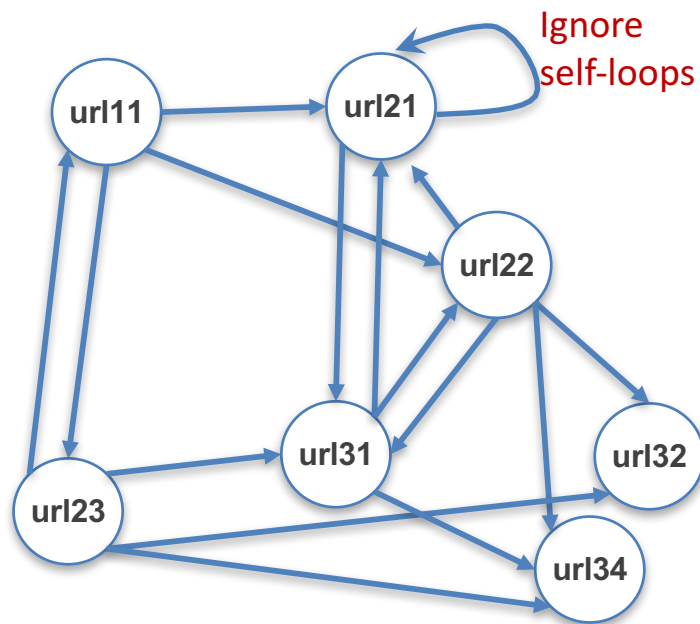


W^{out} : How to calculate?



$W_{(v,u)}^{out}$ is the weight of $link(v, u)$ calculated based on the number of outlinks of page u and the number of outlinks of all reference pages of page v .

$$W_{(v,u)}^{out} = \frac{O_u}{\sum_{p \in R(v)} O_p} \quad (6)$$

where O_u and O_p represent the number of outlinks of page u and page p , respectively. $R(v)$ denotes the reference page list of page v .

- ❖ **Reference pages** of url22 are url21, url31, url32 and url34
- ❖ **Ignore** self-loops (i.e. url21 to url21), and also parallel edges (if exist)

let's say we want to calculate wOut for a link from url22 to url21.

In example, 1 refers to url21, and out-degree of url21 is 1, **outDegree(url21) = 1.**

2 refers to url22. **Reference pages of page url22** are url21, url31, url32 and url34 (out links).

outDegree(url21) = 1, outDegree(url31) = 3, outDegree(32)= 0 and outDegree(34)=0.

As per the specs, to avoid issues related to division by zero, out-degrees of 32 and 34 are considered to be 0.5.

So, for the link url22 to url21, $wOut[2][1] = (1) / (1+3+0.5+0.5) = 0.20$ (same as in the log file).