Algorithm WD

- The quantity W(u, v) is the minimum number of registers on any path from vertex u to vertex v.
 - We call a path $u \stackrel{p}{\Rightarrow} v$ such that w(p) = W(u, v) a critical path from u to v.
- The quantity D(u, v) is the maximum total propagation delay on any critical path from u to v.
- Both quantities are undefined if there is no path from u to v.

Algorithm WD Complexity

- Time complexity: $\mathcal{O}(V^3)$.
- Space complexity: $\mathcal{O}(V^2)$.