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 $u \overset{p}{\twoheadrightarrow} v$ 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: $\mathcal{O}(V^2)$.