

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 $u \xrightarrow{p} v$ 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 .

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Complexity

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