## Eating Everything Efficiently

## Ha Le

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Modifying the Longest Path Algorithm, but change the recursive formula into:

If u is a sink (base case):

$$dfs(u) = d[u]$$

If u has an edge from it:

$$d\!fs(u) = max(u + \frac{1}{2}d\!fs(u), d\!fs(u), d\!fs(i))$$