Partial Dijkstra illustration

Heaps, Decrease Key

Known

5.
\[ a \quad 0 \]
\[ c \quad 2 \]
\[ b \quad 3 \]
HW2 example
counting number of paths from s to other vertices
not number of (legal) paths, so a bit different than HW2
Finite State Problem

$G$

Initial all $f_i$ to 0
run Dijkstra's as normal.

Possible modifications to Dijkstra

Capacity Problem

$50 \rightarrow s \rightarrow c \rightarrow d \rightarrow e \rightarrow t$

Min capacity buffer to go to $t$