

CS 170

2.9 LECTURE 7

Edges can have different weights \rightarrow Dijkstra's Algorithm

Edges can have negative weights \rightarrow Bellman-Ford Algorithm

We need to detect negative cycles here!

DIJKSTRA'S ALGORITHM

Dijkstra (G, s) : $\text{dist}[s] = 0$, $\forall v \neq s \text{ dist}[v] = \infty$

$K = \emptyset$

while $K \neq V$: pick $u \in V \setminus K$ with s

