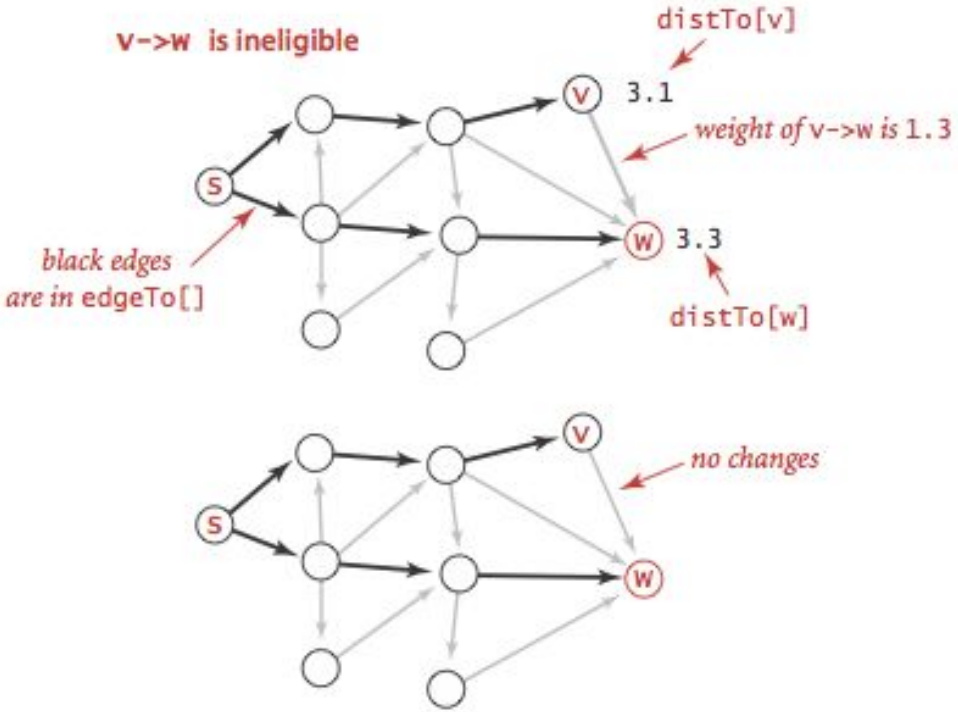
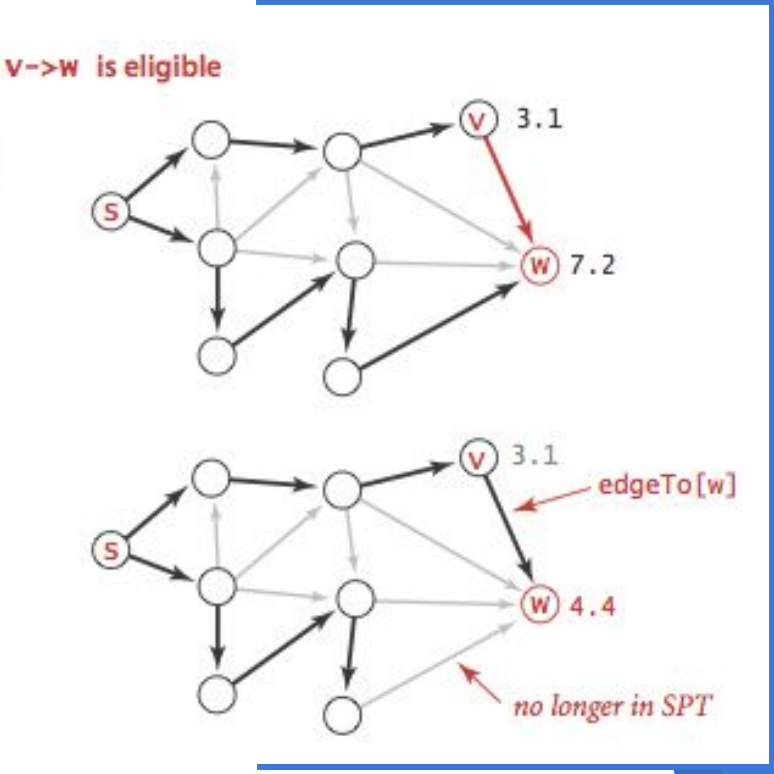
SHORTEST PATHS

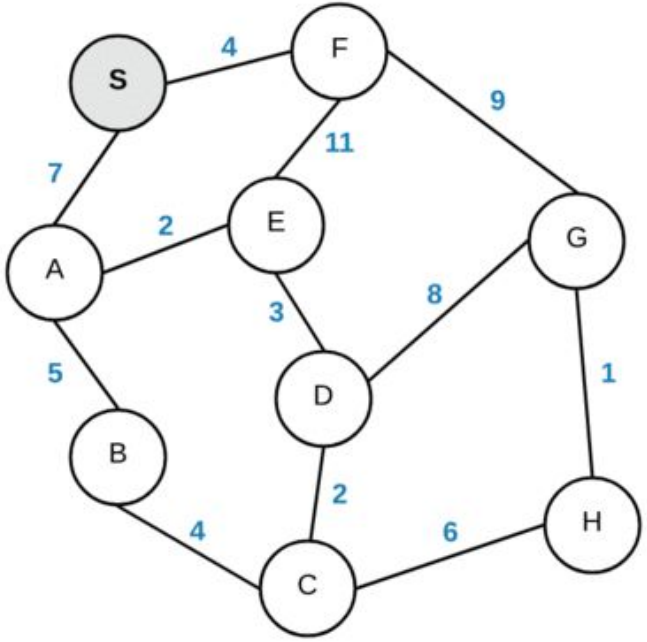
Edge relaxation





Dijkstra's algorithm

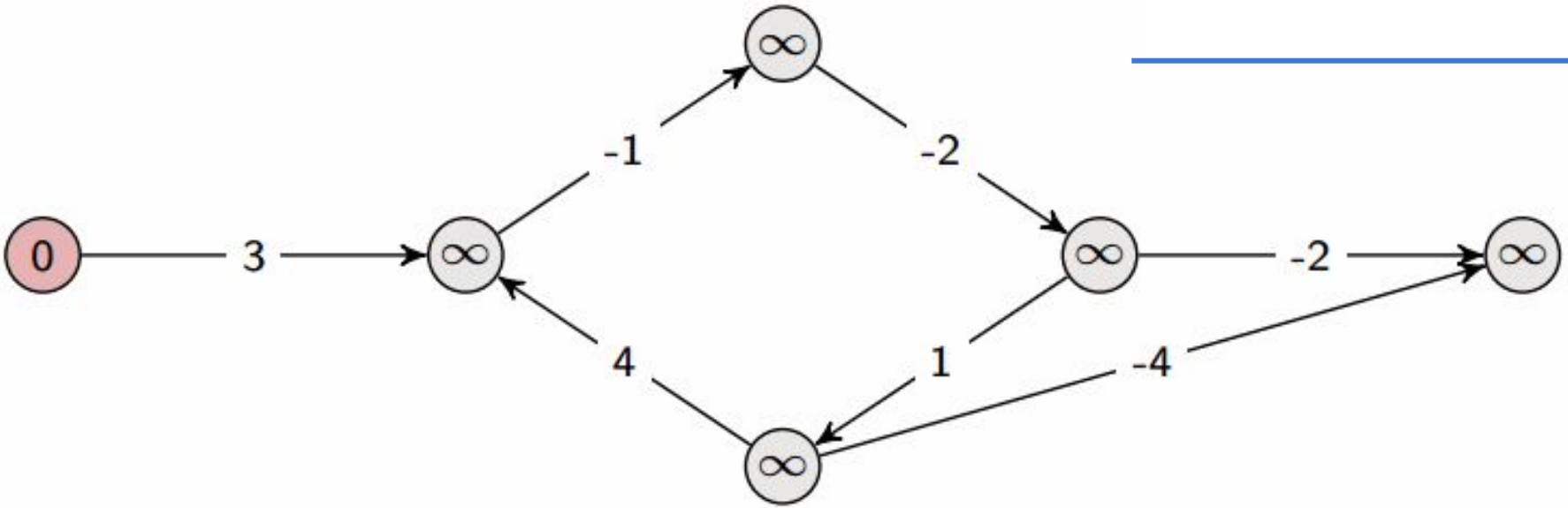
Fig 4



Dense graphs	$O(V^2)$
Sparse graphs	$O(E + V \log V)$

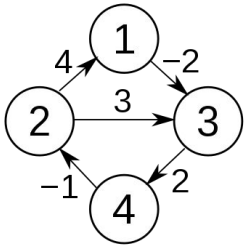
Bellman-Ford

Best case	*O(E)*
Worst case	*O(VE)*

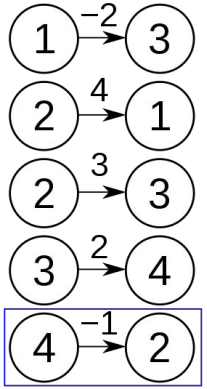


Floyd Warshall

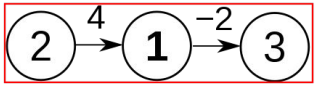
Best case	$O(V^3)$
Worst case	$O(V^3)$



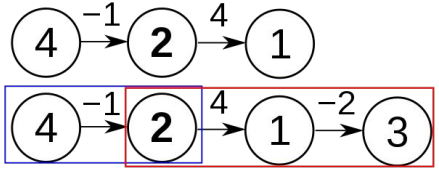
$k = 0$:



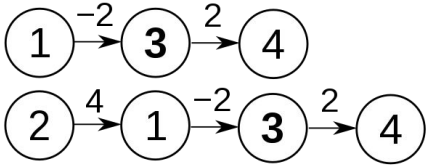
$k = 1$:



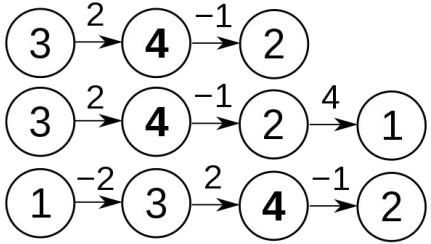
$k = 2$:



$k = 3$:

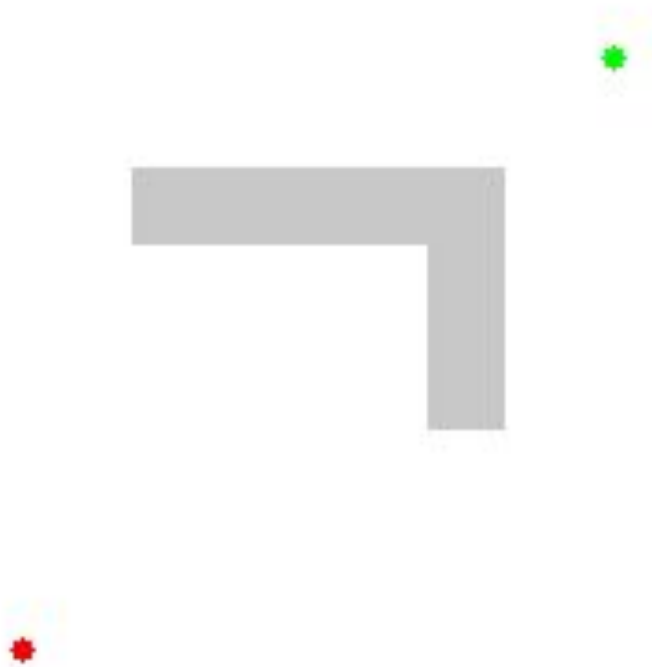


$k = 4$:



A*

Worst case *O(E)*



Задачи

- Пътуване
- Cheating
- Атака
- Sober

THE
END