

Nodes	10		100		1000		5000	
Edges	~20		~200		~2000		~10000	
Algorithm	Dijkstra	Bellman-Ford	Dijkstra	Bellman-Ford	Dijkstra	Bellman-Ford	Dijkstra	Bellman-Ford
Min [ms]	16.2µs	105µs	40.2µs	1.32ms	68.9µs	82.7ms	60.0µs	3.48s
Max [ms]	4.17ms	6.54ms	448µs	11.6ms	2.49ms	132ms	3.53ms	3.86s
Avg [ms]	189µs	382µs	186µs	3.51ms	771µs	92.3ms	1.38ms	3.65s
Std [ms]	739µs	1.14ms	99.6µs	1.88ms	533µs	14.6ms	900µs	100ms

Dijkstra:O(E log N) because of used java’s PriorityQueue

Bellman-Ford:O(N \* E)

Repetitions: 10

Dijkstra:

Min: 16.2µs

Max: 4.17ms

Ave: 189µs

Std: 739µs

Bellman-Ford:

Min: 105µs

Max: 6.54ms

Ave: 382µs

Std: 1.14ms

Repetitions: 100

Dijkstra:

Min: 40.2µs

Max: 448µs

Ave: 186µs

Std: 99.6µs

Bellman-Ford:

Min: 1.32ms

Max: 11.6ms

Ave: 3.51ms

Std: 1.88ms

Repetitions: 1000

Dijkstra:

Min: 68.9µs

Max: 2.49ms

Ave: 771µs

Std: 533µs

Bellman-Ford:

Min: 82.7ms

Max: 132ms

Ave: 92.3ms

Std: 14.6ms

Repetitions: 5000

Dijkstra:

Min: 60.0µs

Max: 3.53ms

Ave: 1.38ms

Std: 900µs

Bellman-Ford:

Min: 3.48s

Max: 3.86s

Ave: 3.65s

Std: 100ms