Dijkstra and Bellman-Ford algorithms work pretty similar. In normal cases Dijkstra algorithm works better than Bellman-Ford algorithm. But Dijkstra algorithm cannot work with negative weighted edges. On the other hand, Bellman-Ford algorithm can work with negative weighted edges also can detect negative cycles which cause infinitive loops. Dijkstra and Bellman-Ford algorithms are single source shortest path algorithms. Floyd-Warshall can find shortest path between any two points since it can find shortest path between all vertices. If you need to find multiple shortest path between vertices in one run then you should consider preferring Floyd-Warshall algorithm. If you have negative cycles in your graph then you should choose Bellman-Ford algorithm. If the case none of these two, then you should choose Dijkstra because it performs better in normal cases.

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