Dynamic programming is not any kind of algorithm. It’s a paradigm (a way of thinking) to optimize solution of problems. Greedy method and dynamic programming, both are used for solving optimization problems (the problems which requires minimum result or maximum result). Greedy method always makes the choice that seems to be the best at that moment (takes the minimum or maximum every step). This means that it makes a locally-optimal choice in the hope that this choice will lead to a globally-optimal solution. But in dynamic programming we try to find out all possible solutions and then pick up the best solution. Generally we use dynamic programming where greedy method fails. Mostly dynamic programming problems are solved recursion or iteration. It is sometimes difficult to come up an idea in an iterative way and so most of the programmers prefer recursive way.

General approach of dynamic programming:

* Split the problem into overlapping sub-problems.
* Solve each sub-problem recursively.
* Combine the solutions to sub-problems into a solution for the given problem.
* Don’t compute the answer to the same problem more than once.