- The next question now that we need an answer to is: "How does one identify that one can use the technique of Dynamic Programming to solve a particular problem?"

The following are some of the ways one can use to identify the applicability of Dynamic Programming to a specific problem:

1) As we saw in the previous parts that DP is nothing but enhanced "recursion". Hence if you/one has figured out that one can solve a problem using recursion then there is a good chance the DP (dynamic programming) could also be applied to the problem.

2) The technique of dynamic programming is particularly applicable to a certain class of problems called the "Optimization Problems".

"Many important problems in real life involve finding the best way to accomplish some task. The word best way is often linked to or mapped / involves to find the maximum or minimum value of some mathematical function. Some examples can be:

1) The minimum time taken to complete a certain train journey.
2) The minimum cost of doing a task.
3) The maximum profit that can be earned selling a subset of items

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Many of these problems can be solved by finding the