

# Dynamic Programming

What is dynamic programming and how does it work at a high level?

Dynamic programming is simply an optimization over plain recursion. Whenever we see a recursive solution for the same inputs, we can optimize it using Dynamic programming. The main idea is to simply store the results of the sub-problems so that we don't need to recompute them when they are needed later.

At a high level, you are looking at all the possible first choices, recursively solving them and then picking the best one.

What is the weighted activity selection problem and how would you solve it with dynamic programming? Explain the following:

- What is  $P(i)$ ?

- What is the recurrence relation?

In the weighted activity selection problem, you have  $n$  events  $e_1, e_2, \dots, e_n$ . For each event, you have the start time  $s_i$ , finish time  $f_i$ , and the reward which is  $r_i$ . What we want to do is find a non-conflicting subset of events with the highest reward.

- The way we approach it with dynamic programming is by considering what you want to schedule last. But since we don't have a greedy strategy, we consider every possible choice for that last position.

- If you have an event  $e_j$  that you are considering for the last position, you are removing everything after  $e_j$  and you are removing anything that is conflicting with  $e_j$ .  $P(i) = j$  means that there has to be some event  $e_1$  to  $e_j$  that are left in the subproblem

- Define  $M(j)$  as the best reward we can get from the first  $j$  events and we ultimately want to compute  $M(n)$

- The recurrence relation is  $M(n) = \max(r_i + M(p(i)))$ .  $r_i$  is the reward from event  $e_i$

# Dynamic Programming Exam Questions And Solutions

**CL Gary**



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