

Dynamic Programming Process

4 STEPS TO DYNAMIC PROGRAMMING



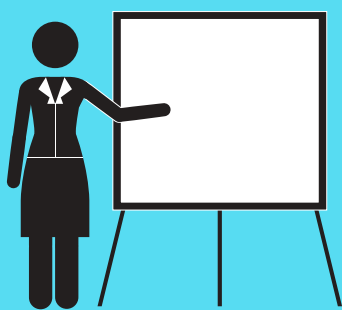
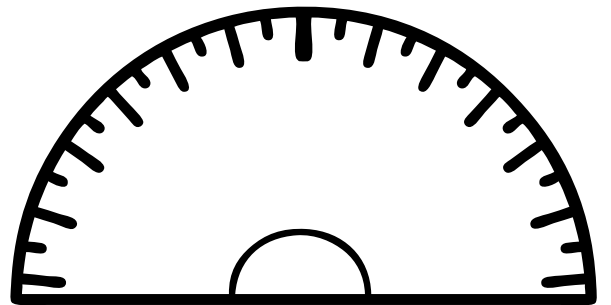
1.) WRITE THE PROBLEM OUT

Understanding your problem is the first step.

- What is the problem?
- What are the subproblems?
- What would the solution roughly look like?

2.) RECURRENCE

- Basecases
- "What decision do I make at step n ?"
- "What decision do I make at step $n - 1, n + 1$?"



3.) DIMENSIONS OF MEMOISATION ARRAY

- How many variables do we have in our subproblems?
- How big are the variables?

4.) CODE IT

Take your recurrence and knowledge of the memoisation array, and code the solution.

