**Format Notes**

**Defining Ranges**

Many people will lose marks on formatting. Please don’t be one of them. When defining sub problems there’s like 1 or 2 acceptable ways to write ranges. AND THAT’S IT. YOU WILL LOSE MARKS IF YOU DO SOMETHING ELSE. Here is an acceptable way:

* Case 1: A[1...i] which includes A[i]
* Case 2: A[1...i]

The first case means that task/item/t ci is ALWAYS included. The second case is used when the ith index can be included as optional whenever the situation permits.

Obviously, ranges can be written using other words BUT PLEASE STAY AWAY FROM USING THE WORD “INCLUDE” UNLESS CASE 1 applies. Examples of how to lose marks:

* “The first i items up to and including i.” DO NOT SAY THIS! See proof for reasons why.[[1]](#footnote-1)

The takeaway here is that the graders really prefer the bracket notation laid out in the DPV text and in Case 1 and Case 2 above. Trust me. I have lost enough marks over this.

**Length of Submission**

* The problem definition should be around 5 lines, 7max
* The mathematical recurrence should be like 15 lines, 20 max

**Other Notes**

* DO NOT INCLUDE BACKTRACKING UNLESS EXPLICITLY ASKED FOR
* DO NOT INCLUDE PSEUDOCODE UNLESS EXPLICITLY ASKED FOR
* DO NOT INCLUDE RUNTIME ANALYSIS UNLESS EXPLICITLY ASKED FOR
* There is a good chance you will lose marks if you include things not asked for
* Look at the LIS sample solution they provide

1. Proof DC-1-Fall24 [↑](#footnote-ref-1)