



P3.2. a) It has been shown in , a3.2 cpp jile. (6) We must show a thing about loop invariant, luitible sation, Maintence and Termination Initialaxation: Unitialy sorted array has no element in it, so theregore we can say it is sorted at that time; Maintence: Here the lest part of the subarray accountill the "n'i element A IO. .. n] is always sorted and the next element from [n+1 . n] gets added to the left Jul array so, it maintains the loop invariant. Termination: The loop invariant gives us a useful property that helps show that algorithm is correct, when the loop terminates. At the end of termination the left subarray will

