BINARY SEARCH

Binary Search (): Description: Here A is a sorted array having N elements. ITEM is the value to be searched. BEG denotes first element and END denotes last element in the array. MID denotes the middle value. Set BEG = 1 and END = N1. 2. Set MID = (BEG + END) / 23. Repeat While (BEG <= END) and (A[MID] \neq ITEM) 4. If (ITEM < A[MID]) Then Set END = MID -15. 6. Else 7. Set BEG = MID + 1[End of If] Set MID = (BEG + END) / 28. [End of While Loop] If (A[MID] == ITEM) Then 9. Print: ITEM exists at location MID 10. 11. Else 12. Print: ITEM doesn't exist [End of If] 13. Exit