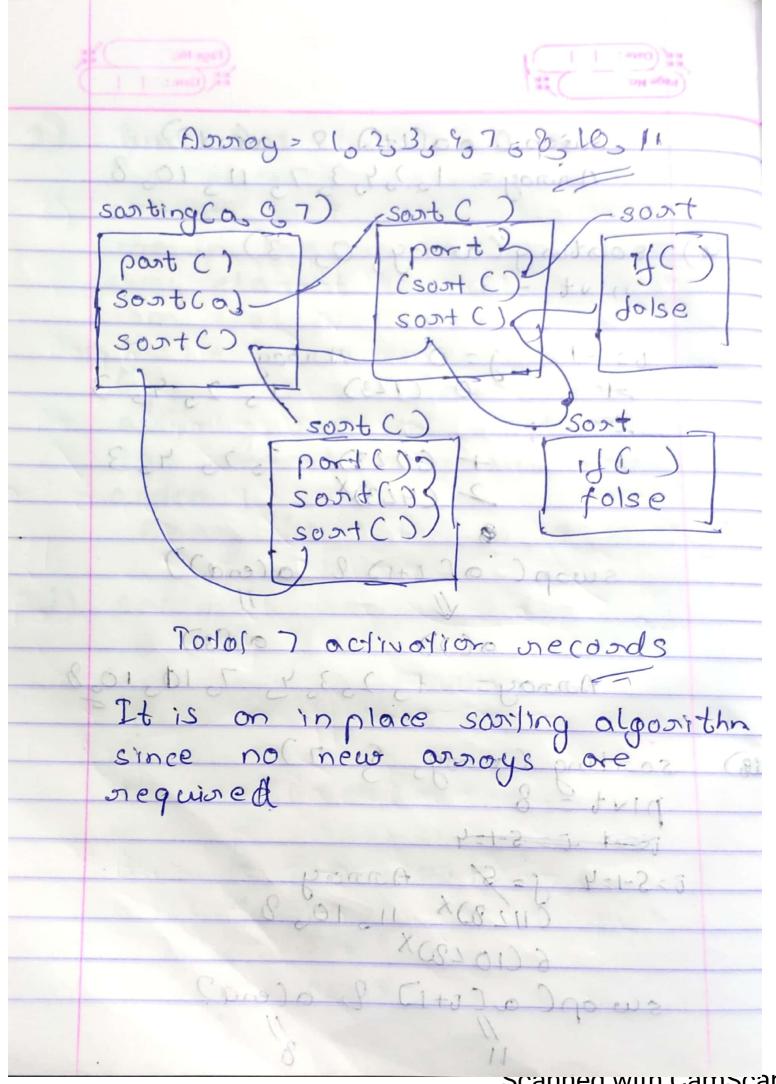


Quick Sost This algorithm assumes a plvot element on difinds itsilocation the in the array such that every element to its left are less than that producte ment and all the elements to the right are tigger than the privat element assuming that we want to sont the element array in increasing order, Annoy = [1.52,4.3,8510,10,7] sorting Carray 057) DINT = 7 j=0 Ansing D=-1 & C120=> 6204. H ET- = ()- ()-D x (227)=> 102,4...7 2 (4.27) =7 4024 7 3 (367) => 1, 25 4, B. 8 C82Dx S CID (20 X 6 CIOLD X

1 swop Coalita & a(end) Annoy = 10343,7,11,10,8 is) sorting (array 0, 3) - Tongeon D C143) 13 29 43 3 9210) + 62230 70 520 403 2 C4230 802 swop (of C+1) & (a) (end) 2 000000 002D 00000 00 030 Array= 1,233,4, 7,10,10,8 and reople pathose sool of as 21 ft pivt = 8 = 7) 10 0= S-1-4 C11280X 1121008 6 C10 L20X swoplacoti) & alera?

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Bubble sont Annag = So4, 3, 6, t +C S73) 2 (576) X 3 (670 O C473) 3, 4, 415, 1, 6 C4750x 2 (S7D) 0- (374)X C471) 0 C371) 4+3+2+ Time complexity of both bubble sort is och? where os that of quick sord is nlogn

