Jahid Hasan

2010 15060

Answers the question numbers-1
Quickshorred (A, Liest, Right)
(a) Is Lest & Right (b) (a) Lest, Right (c) then $q = Patetition (A, Lest, Right)$
2 then q= Patetition (A, Less)
(3) Quick sorth (A, Lest, T)
@ Quicksout (A, 9+1), Right
END'S CONSENS STEWNS 19
R Pardition (A, Lest, Right)
O'X = A [Right] and but nothibrory
0. 1 = Lest - 1 2000 ans 1/2 / 1/2
@ For f = Lest to Right = A.
6 do x 15 A'[J] 4 71 3 6
. [] 지수는 사람이 나는 그는 그리고 그리고 있다. 그는 그는 그리고 있다면 해를 했다. 그는 그리고 있는 것을 하는 것을 하는 것이 없는 것은 기계를 받는 것이다. 그는 그리고 있는 그리고 있는 것은 그리고 있는 것은 기계를 받는 것이다. 그리고 있는 것은 그리고 있는 것은 그리고 있는 것은 그리고 있는 것은 것이다. 그리고 있는 것은 그리고 있는 것은 것이다. 그리고 있는 것은
5) Shen i = i+1 6) swap (A[i], A[i])

- D Swap (A[i+], A [right])
- (1+2) (1) Errode die

Analyze 3 case of complexisies

Decause all elements go into one pandition and the other partition is presented or in reverse because all elements go into one pandition and the other partition is pandition and the other partition is pandition and the other partition is empty.

2 Average Case: The average rounning sime of Quick short is obtained by Averaging the run time of all possible

subproplems sizes. That means it occurs trum the fact that on average each reduction step of the algorithm produ two subsets. So, the average truming time is o(Nlogn)oihelde mumitique mit

3) Best Case; mildong vion

The best case occurs when the paintidi always splits into two subsets with equal of elements. So, the running Answer the question numbettre time is o (rologn)

The main difference between divide and conquer and dynamic programming is that the divide and conquer combines

the solutions of the subproblems to obtain the solution of the main proble while dynamic programming uses the reesent of the subprioblems to sindt the optimum solution of the main problem

conquen technique is used by tibonaeci search. fibonacci search works on sorted artray as the binary search, in fibonacci there is no use a/u operatore vinsted of this, It vises + and - operator, F(n) = F(n-) + F(n-2), F(v)=0, F(1)=12

In é way to idefine tiboncci number trecursively