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Best case: O(n)
Avg, Worst case: O(ne). DECETASE BY CONSTANT FACTOR !- 1 10 with the July problem tize n with mother såb problem i modeling leving 200 Solution of subsolution of oxeginal problem. Binary Search: 2f (A[m]== key) else of key (A[m]

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Execution Time:-The tollogn. VARIABLE SIZE DECREASE: De varlable 1822e decreare, each and every Exerten 2s decrease by vareable 18ke. MOSTERNE SAMPLESTON X Example: where the ess enged (m,n). o Morrison house ged (m, n) 2 of (n==0) to 2 great : 24 return M; souber modding else down as to Employ 191 man class bottonger qcd(n,t); + MARRONIA Alg-mode (AC. -3) gcd (50/24) = gcd (24/12) = gcd (12/9 (1-11 of 0=9) 128. (C+1) == (8)A) 73 : ++ + Jun 33 (Imas < 1 downes / 13 miles

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TRANSFORM AND CONQUER: convert the problem Ento another type and sol Example: Heap Sort. Types: \* Instance somplification. - unequeness
- mode
- mode
- binary search
- binary search
- pre solling (11,000) 1500 A regresentation change. Ex: Leap sort \* problem reduction. Repeated nois more times called as mode. Algorethm: Alg\_mode (AC--J) count =0; Num = A[0]; count 1=1; for( l=0 to n-1) 3 St (A[E] = = A[EHI]) count 1++; else of ( count 1 > count) Count = count 1; Num = A[E]; " Dent 1=1; 3 else count 1=1;

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deeplay (count, Num); neturn True

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