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3) \$1,2,3,6,3,43 And (41), (2,3) Maye sort time complexity is O'n legal size = len (array) for i to n do ? sourching-one = array[i] mod = target % searching- one divisions larget /x if mod = 0pair = Biney Search (air g, i+1, n-1, division) O(n. 1290) + O(n) + O(1290) Time complexity O (n.legn). worst use

rouged - trees (treety tree 2): convert true I and tree 2 to protect lists Messorte now live tree 3 = non true () The like d& Jenl if (tree [Ci] L+12e 2 []]: tree 3. Add (tree 1[i]) - hus. Add (list 2[1]) while (cm) free 3 Add (tree & [:] while (720) tree 3. Add (tree 2 Ly]) return list 3 Let say tree! 's height is n, so it has 2-1 modes. Tree 2's height is m, so it has 2^m-1 rods. First of all convet tree's to ordered lists, O(n) and O'm) times. Then meging that lists Olment times. That's why wast case of the pragram 0'01101m1+01mn1 => 01m+n)

5) Finding small correct is try any Can be use how h table 5=[1,2,3,4] = loyer , [1,5] = smaller re Pind elements (larger-ding [], smaller-ding []) { Hash lable = new HashTable (Parper-array []) for 1 to len (smalle-array) do eg = smaller- aray [] . hash Gde () if hoish-table pet (eg) == "" relun fabe else return true. -) Creating hash table is size of array which on O(m). In code we have for loop, which runs or times 0(m) +010) -01min), also west are (

of inner loop tuno 1 times , because of the break startants.	
Outer loop nos o timos.	
So, in total ode (1) AXI= A -linesline complexity of the ode	
p) for (1=n/3; 15n; 1++) for (j=1; 2+n (n; 1++)) for (k=1, k=n, k=k+3) (works logge -> because of increasing rate	
J+n 2n => J+n 43n => J < 2n 30 new bop J=1; J < 2n; J++ (SI+ nos 2n +ime)	
$10-\frac{1}{3} + imes $	
In total 0(20) 0(20) 0(1035) 0(0 0 1930) = 0(02 1930)	