t Given an alray of only 0.8, 1.8 & 2.8

Sort the given array without using any cost solving algorithm. (No built-in functions allowed) t = 2Sample t = 3 Sample t = 3 int[] arr = $\{2,1,2,1,0,2\}$ $\{0,11,2,2,2\}$ Time Complexity t = 3 O(n) t = 3 Unless t = 3 Sample t = 3 Time Complexity $\rightarrow O(n) \rightarrow \text{ Linear}$ Entra DS not Space Complexity $\rightarrow O(1)$ allowed. $O(n) \times$ [(DP) -) R+M+T+SO] O(n) iwex = 0V CO = 1 1 1 - 0 2 1 2 0 1 C1 = 2 - |-| = 0VC2 = 3-1-1-1=0while (co > 0) {> -> 0(n) arr(index+t) = 0; co--;au 011222 1 iwen while (c1>0) s Same for C1; -) O(n) Ushile ((270) 5 Same for (2i) (n) \approx O(n)0(1) * Arrays \rightarrays Imp for DSA \rightarrays Jagged Arrays

* Kadane Algorithm? \rightarray Maximum Subarray Sum sht[] arr $= \{5, -8, 1, 2, -1, 4\}$ $= \{5, -8, 1, 2, -1, 4\}$ int $c_{max} = a_{7}r[0] = 5 - 3 y_{3} = 0$ $c_{m} = a_{m}[1], c_{m} + a_{m}[1]$ int gnax = arr[0] =(5) 6 = 4, 2+4 for (int i=1; i<n; i++) { cmax = max (arr[i], cmax + arr[i]); 4,6 3 gman = max (cmax, gmax); [DRY RUN]
return gmax; 76 $mid = \frac{1}{5+e} \rightarrow (OOB)$ Desiration: -> (Seach Space) Integer $\rightarrow -2^{31}$ to 2^{31} + Max) = (-ve)(Max $k = \log N - \log N$ $k = \log 2$ Ste (-VR) tercentage Alloation of Topics for Coding Interviews 10 -/6 20% Arrays rees Kinary Search y raphs Special Algos -) Java -) Collections & Sieve of Eratosthenes (Prime nos) * Finding the square root of a number waing Binary Search int sqroot (int n) $\begin{cases} 0 & -36 \\ \sin d = \frac{36}{2} = 18 \end{cases}$