13/191 $[12] [34, 67, 90] \rightarrow$ 46, 157 [12,34] [67,90] > 113, 90 √ [12,34,67] [90] → [ao, a, az, as, a, -..] [90, ZD3]. M = 1 M= N nes - arry sum. Mes = max element is the wrig [10, 20, 10, 30] Find the no- of Search Space: [30,70] 1 M=4,3,702,1/n=1 J stydents st. no. sympent gets more than mid pages low = 30 high = 70 mid = 50 $\begin{bmatrix} 10, 20, 10, 30 \end{bmatrix}$ Dis and the sight half [10, 20, 10, 30]low = 30 high = 49 mid = 79 - 39 Discard the left half low = 40 Mgh = 49 [10, 20, 10, 30]mid = 89 = 49 Discard the sight half [10,20, 10,30] low = 40 Mgh = 43 mid = 83 = 41 Dis card the sight hal? 100 - 40 high = 40 md=40. Discard the sight half 100-40 high = 39 TC: 0 (n * log (sum)) bool isPossible(vector<int> &pages, int M, int mid) { // [10, 20, 10, 30] mid = 39 int studentCount = 0, pagesAllocated = 0; for (int i = 0; i < pages.size(); i++) {</pre> if (pagesAllocated + pages[i] <= mid) {</pre> pagesAllocated += pages[i]; } else { studentCount++; pagesAllocated = pages[i]; return studentCount <= M;</pre> 30 -

[12,34,67,90]