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Date: Page: Day -80 Recursion - 7 Linear search 6 12 \rightarrow an, X=8(av. 5 amis int N linearsearch (int anc), int X, int index) { if(index == N) return 0; if (an Lindex] == x) return 1; return linearsearch (am, X, index + 1, N); 3 Binary Search

22 -> an. X = 20 20 We have given a non-decreasing array. bool Binay Search (int anc), int start, intend, inty if (start > end) return 0; int mid = start + (end-start)(2; if (an [mid] == x) · neturn 1: else if (antmid) «x) return Binary Search (arr, midt) end(x);else return Binary Seanch (arr. start mid-x);