DSA through C++

Searching



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Agenda

1 Linear Search 2 Binary Search Linear Search

Array -> 34 41 29 62 87 91 43 18 27 5

Ttem -> 25

for (i=0; i<N; i+f)
if (A[i]==Item)
return i;

return -1;

Time Complexity of Linear Search

()(n)

Binary Search 35 40 29 18 90 87 62 53 61 59 ort 1 2 3 4 5 6 7 8 9 18 29 35 40 53 59 61 62 87 90 m = l + uif(A[m]==Item) return m; if (Item < A[m]) binary_search(A, l, m-1) binary_search(A,m+1, 4)