

Linear Search

10	14	19	26	27	31	33	35	42	44
1	2	3	4	5	6	7	8	9	10



Index No.

Linear Search is a sequential search algorithm. Every item is checked and if a match is found then that particular item is returned, otherwise the search continues till the end of the data collection.

Linear Search(A, n, x)
array length of array Search value

Algorithm: ~~Linear Search (Array, A, Value x)~~

Step 1: Set i to 1 [Here, i refers to index]

Step 2: if $i > n$ then go to step 7

Step 3: if $A[i] = x$ then go to step 6

Step 4: Set i to $i + 1$

Step 5: Go to step 2

Step 6: Value x found at index i and go to step 8

Step 7: Value not found

Step: Exit.