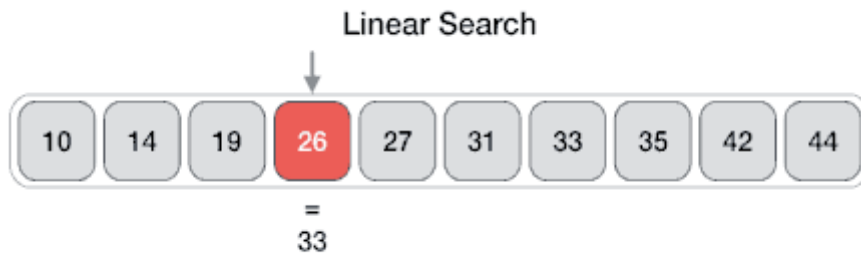


Data Structure and Algorithms Linear Search

https://www.tutorialspoint.com/data_structures_algorithms/linear_search_algorithm.htm

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Linear search is a very simple search algorithm. In this type of search, a sequential search is made over all items one by one. 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.



Algorithm

Linear Search (Array A, Value x)

Step 1: Set i to 1
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: Print Element x Found at index i and go to step 8
Step 7: Print element not found
Step 8: Exit

Pseudocode

```
procedure linear_search (list, value)
```

```
    for each item in the list
```

```
        if match item == value
```

```
            return the item's location
```

```
        end if
```

```
    end for
```

```
end procedure
```

To know about linear search implementation in C programming language, please [click-here](#).