

## Linear Search or Searching

### In an Array



It is an operation in which a given array can be searched for a particular value.

The location of the searched element is informed.

Eg An Array Series[N] we will search an element value 'X' and if it is found then its location is stored in POS.

\*\* If there is duplicate values in the Series[N] then position of last duplicate value will be pointed.

Algo

1. C=1, Pos=0
2. While(C <= N)  
    Perform Step3 & 4
3. if( Series[C] == X )  
    Then pos=C
4. C = C+1
5. Display pos
6. End,

```
// Program searching in an array
#include < stdio.h >
#include < conio.h >
Void main()
{
    int Series[30];
    int C, Pos, X, n, i;
    printf("nEnter the size of series");
    scanf("%d", &n);
    printf("nEnter the elements of series");
    for(i=0; i<n; i++)
        scanf("%d", &Series[i]);
    printf("Enter the value to be Searched");
    scanf("%d", &X);
    C=0;
    Pos=-1;
    While (C < n)
    {
        if( Series[C] == X )
            Pos = C;
        C++;
    }
    if (Pos > -1)
```

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```
{ printf ("In The position of element from 0 position  
      ='%d', pos);  
}  
else  
    printf ("In No element found");  
}  
}  
} //main function ends.
```

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