

Largest Element in an Array

Thursday, February 29, 2024

1:58 PM

I/P: arr[] = {10, 5, 20, 8}
O/P: 2 // Index of 20

```
int getLargest(int arr[], int n)
{
    int res = 0;
    for (int i = 1; i < n; i++)
        if (arr[i] > arr[res])
            res = i;
    return res;
}
```

Second largest element of the array

I/P: arr[] = {10, 5, 8, 20}
O/P: 0 // Index of 10

```
int secondLargest(int arr[], n)
{
    int largest = getLargest(arr, n);
    int res = -1;
    for (int i = 0; i < n; i++)
    {
        if (arr[i] != arr[largest])
        {
            if (res == -1)
                res = i;
            else if (arr[i] > arr[res])
                res = i;
        }
    }
}
```

```
int secondHighest(arr[], int n)
{
    int res = -1, largest = 0;
    for (i = 1; i < n; i++)
        if (arr[i] > largest)
        {
            res = largest;
            largest = i;
        }
    else if (arr[i] != arr[largest])
    {
        if (res == -1 || arr[i] > arr[res])
            res = i;
    }
    return res;
}
```