

30. Given two sorted arrays nums1 and nums2 of size m and n respectively, return the median of the two sorted arrays. The overall run time complexity should be  $O(\log (m+n))$ .

Program:

```
.def Solution(arr):  
    n = len(arr)  
    if n % 2 == 0:  
        z = n // 2  
        e = arr[z]  
        q = arr[z - 1]  
        ans = (e + q) / 2  
        return ans  
    else:  
        z = n // 2  
        ans = arr[z]  
        return ans  
if __name__ == "__main__":  
    arr1 = [-5, 3, 6, 12, 15]  
    arr2 = [-12, -10, -6, -3, 4, 10]  
    arr3 = arr1 + arr2  
    arr3.sort()  
    print("Median = ", Solution(arr3))
```