

Merge Two Sorted Arrays

```
let a1 = [2,3,5,7,8,0,0,0]
```

```
let n1 = 5
```

```
let a2 = [1,4,8,9]
```

```
let n2 = 4
```

```
const func = (a1,a2,n1, n2 ) => {
```

```
    let r = n1+n2-1;
```

```
    let p = n1-1;
```

```
    let q = n2 -1;
```

```
    console.log(a1);
```

```
    while(q>=0){
```

```
        if(p>=0 && a1[p]>a2[q]){
```

```
            a1[r] = a1[p];
```

```
            r--;
```

```
            p--;
```

```
        }
```

```
        else{
```

```
            a1[r] = a2[q];
```

```
            r--;
```

```
            q--;
```

```
        }
```

```
    }
```

```
    console.log(a1);
```

```
}
```

```
func(a1,a2,n1,n2);
```

```
//TC: O(n1+n2)
```

```
//SC: O(1)
```

```
// Find Peak Element in logn TC
```

```
let a = [2,4,5,1,7,8]
```

```
// Find Peak Element in logn TC
```

```
let a = [2,4,5,1,7,8]
```

