

## Challenge: Implement Merge


The merge function should merge the sorted subarrays in array[p..q] and array[q+1..r] into a single sorted subarray in array[p..r]. The function starts by allocating two temporary arrays, lowHalf and highHalf, and copying array[p..q] into lowHalf and array[q+1..r] into highHalf.


You should complete the function:


- Make it repeatedly compare the lowest untaken element in lowHalf with the lowest untaken element in highHalf and copy the lower of the two back into array, starting at array[p].


- Once one of lowHalf and highHalf has been fully copied back into array, the remaining elements in the other temporary array are copied back into array.

Note: use indexes i,j and k to access elements in lowHalf,highHalf,and array.

 Java

 Python

 C++

 JS

```
1  class Solution {
2      // Takes in an array that has
3      // from [p..q] and [q+1..r],
4      public static void merge(int
5          // Repeatedly compare the
6          // lowHalf with the lowest
7          // and copy the lower of t
8
9
10     // Once one of lowHalf and
11     // back into array, copy t
12     // other temporary array b
13
14 }
15 }
```

