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MergeSort(o, v.length, v)

```
p = 0, n = 6, q = 3
    MergeSort(p, q, v)
      p = 0 , n = 3, q = 1
        MergeSort(p, q, v)
        p = 0, n = 1
        return
        MergeSort(q, n, v)
        p = 1, n = 3, q = 2
          MergeSort(p,q,v)
          p=1,n=2
          return
          MergeSort(q, n, v)
          p = 2, n = 3
          return
        return
     return
    MergeSort(q, n, v)
      p = 3, n = 6, q = 4
       MergeSort(p, q, v)
        p = 3 , n = 4
        return
       MergeSort(q, n, v)
       p = 3 , n = 6, q = 5
         MergeSort(p, q, v)
          p = 4, n = 5
          return
         MergeSort(q, n, v)
          p=5,n=6
          return
        return
     return
return
```

```
int[] v = {5,8,2,1,7,4};

public static void mergeSort(int p, int n, int[] v){
   if (p < n - 1) {
      int q = (p + n) / 2;

      mergeSort(p, q, v);
      mergeSort(q, n, v);
      intercala(p, q, n, v);
   }
}</pre>
```