```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
            if (array[j-1]>array[j])
                                               5 2 3 4 1
                var temp=array[j-1];
                array[j-1] = array[j];
                array[i]=temp;
```

```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 4, i = 0
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                2 5 3 4 1
                array[j-1] = array[j];
                array[i]=temp;
```

```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 4, i = 1
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                2 3 5 4 1
                array[j-1] = array[j];
                array[i]=temp;
```

```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 4, i = 2
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                2 3 4 5 1
                array[j-1] = array[j];
                array[i]=temp;
```

```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 4, i = 3
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                2 3 4 1 5
                array[j-1] = array[j];
                array[i]=temp;
```

```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 3, i = 0
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                2 3 4 1 5
                array[j-1] = array[j];
                array[i]=temp;
```

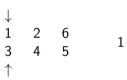
```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 3, i = 1
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                2 3 4 1 5
                array[j-1] = array[j];
                array[i]=temp;
```

```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 3, i = 2
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                2 3 1 4 5
                array[j-1] = array[j];
                array[i]=temp;
```

```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 2, i = 0
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                2 3 1 4 5
                array[j-1] = array[j];
                array[i]=temp;
```

```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 2, i = 1
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                2 1 3 4 5
                array[j-1] = array[j];
                array[i]=temp;
```

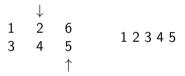
```
void Sort(int[] array)
    for (int i=array.Length-1;i>0;i--)
        for (int j=1; j<=i; j++)
                                               i = 1, i = 0
            if (array[j-1]>array[j])
                var temp=array[j-1];
                                                1 2 3 4 5
                array[j-1] = array[j];
                array[i]=temp;
```

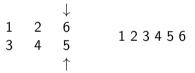






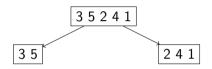


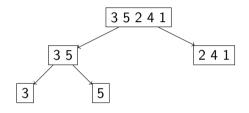


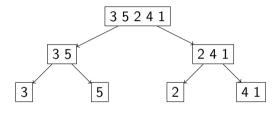


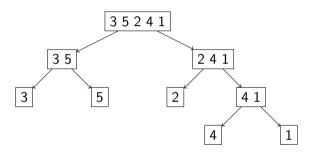
```
static void Merge(int[] array, int start, int middle, int end)
var leftPtr = start;
var rightPtr = middle + 1;
var length = end - start + 1;
for (int i = 0; i < length; i++)
    if ( rightPtr > end ||
         (leftPtr <= middle && array[leftPtr] < array[rightPtr]))</pre>
        temporaryArray[i] = array[leftPtr];
        leftPtr++;
    }
    else
        temporaryArray[i] = array[rightPtr];
        rightPtr++;
    }
for (int i = 0; i < length; i++) array[i + start] = temporaryArray[i];</pre>
                                                           4□ > 4□ > 4□ > 4□ > 4□ > □
900
```

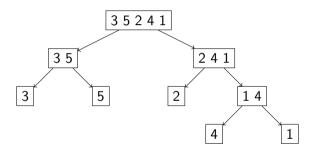
3 5 2 4 1

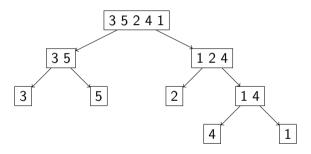


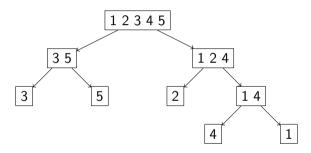












```
static void MergeSort(int[] array, int start, int end)
{
   if (start == end) return;
   var middle = (start + end) / 2;
   MergeSort(array, start, middle);
   MergeSort(array, middle + 1, end);
   Merge(array, start, middle, end);
}
```