Name: Date:	
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## A+ Computer Science - Sort/Search Worksheet 3

```
Directions: Fill in the blanks below.
public void sort3(Comparable[] list )
   sort3(list, 0, list.length);
private void sort3( Comparable[] list, int front, int back)
   int mid = (front+back)/2;
   if( mid==front) return;
   sort3(list, front, mid);
   sort3(list, mid, back);
   help(list, front, back);
}
private void help(Comparable[] list, int front, int back)
   Comparable[] temp = new Comparable[back-front];
   int i = front, j = (front+back)/2, k = 0;
   int mid =j;
   while( i<mid && j<back)
      if(list[i].compareTo(list[j])<0)</pre>
         temp[k++]=list[i++];
      else
         temp[k++]=list[j++];
   while(i<mid)</pre>
      temp[k++]=list[i++];
   while(j<back)</pre>
      temp[k++]=list[j++];
   for(i = 0; i < back-front; ++i)</pre>
      list[front+i]=temp[i];
}
```

Integer[] list =  $\{3,15,61,11,7,9,2,33\};$ 

```
Show the contents of list after 5 passes of sort3.
```