Name :	Date :	

A+ Computer Science - Sort/Search Worksheet 2

Directions: Fill in the blanks below.

```
public void sort1( Comparable[] list )
{
   int i, j, min;
   for( i=0; i<list.length-1; i++)
   {
      min = i;
      for(j=i+1; j<list.length; j++)
      {
        if(list[min].compareTo(list[j]) > 0)
            min = j;
      }
      if( min != i)
      {
        Comparable temp = list[min];
        list[min] = list[i];
        list[i] = temp;
      }
    }
}
```

```
Integer[] list = {3,15,61,11,7,9,2};
Show the contents of list after 4 passes of sort1.
```

```
public void sort2(Comparable[] list )
{
   for (int i=1; i< list.length; ++i)
   {
      int bot=0, top=i-1;
      while (bot<=top)
      {
        int mid=(bot+top)/2;
        if (list[mid].compareTo(list[i])<0)
            bot=mid+1;
        else top=mid-1;
    }
    Comparable temp=list[i];
   for (int j=i; j>bot; --j)
        list[j]=list[j-1];
   list[bot]=temp;
}
```

```
Integer[] list = {3,15,61,11,7,9,2};
Show the contents of list after 5 passes of sort2.
```