

Sortable.java

```
1 public abstract class Sortable {
2     public abstract int compare(Sortable b);
3     public static void shell_sort(Sortable[] a) {
4         int n = a.length;
5
6         for (int gap = n/2; gap > 0; gap /= 2) {
7             for (int i = gap; i < n; i++) {
8                 Sortable temp = a[i];
9
10                int j;
11                for (j = i; j >= gap && a[j - gap].compare(temp) > 0; j -= gap) {
12                    a[j] = a[j - gap];
13                }
14                a[j] = temp;
15            }
16        }
17    }
18 }
19 }
20 }
```