```
1    public static void main(String[] args) {
2      points = readFile("cluster.dat");
3      centers = randomDistinctCenters(points);
4      pool = new ForkJoinPool();
5      double convergence = 1.0;
6      while (convergence > EPSILON) {
7        Spliterator<Point> pointSplit = points
8                .stream()
9                .spliterator();
10       RecursiveClusterTask clusterTask = new RecursiveClusterTask(pointSplit);
11       Map<Integer, Set<Point>> clusters = pool.invoke(clusterTask);
12       Spliterator<Map.Entry<Integer, Set<Point>>> centerSplit = clusters
13               .entrySet()
14               .stream()
15               .spliterator();
16       RecursiveCenterTask centerTask = new RecursiveCenterTask(centerSplit);
17       Map<Integer, Point> newCenters = pool.invoke(centerTask);
18       convergence = distance(centers, newCenters);
19       centers = newCenters;
20     }
21     displayOutput(centers);
22   }
```

FIGURE 17.19 Code for Exercise 17.13.