

```

1. public class HCCVertex extends Vertex<IntWritable, IntWritable> {
2.
3.     @Override
4.     public void compute(Iterable<IntWritable> messageValues, int superstepNo) {
5.         if (superstepNo == 1) {
6.             setValue(new IntWritable(getId()));
7.             sendMessages(getNeighborIds(), getValue());
8.         } else {
9.             int minVal = getValue().value();
10.            for (IntWritable message : messageValues) {
11.                if (message.value() < minVal) {
12.                    minVal = message.value();
13.                }
14.            }
15.            if (minVal < getValue().value()) {
16.                setValue(new IntWritable(minVal));
17.                sendMessages(getNeighborIds(), getValue());
18.            } else {
19.                voteToHalt();
20.            }
21.        }
22.    }
23.}

```