

```
1. public class EdgeCountingVertex extends Vertex<IntWritable, IntWritable> {  
2.  
3.     @Override  
4.     public void compute(Iterable<IntWritable> messageValues, int superstepNo){  
5.         if (superstepNo == 1) {  
6.             sendMessages(getNeighborIds(), getValue().value());  
7.         } else if (superstepNo == 2) {  
8.             for (IntWritable message : messageValues) {  
9.                 if (message.value() != getValue().value()) {  
10.                     minValue = message.value();  
11.                     updateGlobalObject("num-edges-crossing-clusters", new IntWritable(1));  
12.                 }  
13.             }  
14.             voteToHalt();  
15.         }  
16.     }  
17. }
```