

CricketObserver.java

```
1
2 public class CricketObserver {
3
4     public final int crickets, ticks;
5     private boolean[][] chirps;
6
7     public CricketObserver(int crickets, int ticks) {
8         this.crickets = crickets;
9         this.ticks = ticks;
10        chirps = new boolean[ticks][crickets];
11    }
12
13    public void reportChirp(int tick, int n) {
14        chirps[tick][n] = true;
15    }
16
17    public boolean chirped(int tick, int cricket) {
18        return chirps[tick][cricket];
19    }
20
21    public int sync() {
22        int row = 0;
23        while(row < ticks) {
24            if(sync(row)) return row;
25            row++;
26        }
27        return -1;
28    }
29
30    private boolean sync(int tick) {
31        boolean retval = true;
32        for(int i = 0; i < crickets && retval; i++) {
33            retval = chirps[tick][i];
34        }
35        return retval;
36    }
37
38 // private boolean equal(boolean[] a, boolean[] b) {
39 //     boolean retval = true;
40 //     if(a.length == b.length) {
41 //         for(int i = 0; i < a.length && retval; i++) {
```

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```
42 //          retval = a[i] == b[i];
43 //          }
44 //      }
45 //      return retval;
46 //  }
47 }
48
```