```
import java.io.*;
import java.util.Scanner;
class Election{
    static int n;
    static int pro[] = new int[100];
    static int sta[] = new int[100];
    static int co;
    public static void main(String args[])throws IOException
        System.out.println("Enter the number of process");
        Scanner in = new Scanner(System.in);
        n = in.nextInt();
        int i, j, k, l, m;
        for(i=0;i<n;i++)
        {
            System.out.println("For process "+(i+1)+":");
            System.out.println("Status:");
            sta[i]=in.nextInt();
            System.out.println("Priority");
            pro[i] = in.nextInt();
        }
        System.out.println("Which process will initiate election?");
        int ele = in.nextInt();
        elect(ele);
        System.out.println("Final coordinator is "+co);
    }
    static void elect(int ele)
        ele = ele-1;
        co = ele+1;
        for(int i=0;i<n;i++)
        {
            if(pro[ele]<pro[i])</pre>
                System.out.println("Election message is sent from "+(ele+1)+" to
"+(i+1));
                 if(sta[i]==1)
                     elect(i+1);
            }
        }
    }
}
/* output
Enter the number of process
For process 1:
Status:
1
Priority
For process 2:
Status:
1
Priority
2
```

```
For process 3:
Status:
1
Priority
3
For process 4:
Status:
1
Priority
4
For process 5:
Status:
1
Priority
For process 6:
Status:
1
Priority
For process 7:
Status:
Priority
Which process will initiate election?
Election message is sent from 4 to 5
Election message is sent from 5 to 6
Election message is sent from 6 to 7
Election message is sent from 5 to 7
Election message is sent from 4 to 6
Election message is sent from 6 to 7
Election message is sent from 4 to 7
Final coordinator is 6
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