```java
1 package com.strip;
2
3 import java.nio.charset.StandardCharsets;
4 import java.util.*;
5
6 import org.apache.http.NameValuePair;
7 import org.apache.http.client.utils.URLEncodedUtils;
8
9 public class Strip {
10
11     public static void main(String[] args) {
12         List<String> lines = new ArrayList<String>();
13         lines.add("API: amount=1000&merchant=123456789&destination[account]=111111&destination[amount]=877");
14         lines.add("API: amount=800&merchant=123456789&destination[account]=112211&destination[amount]=622");
15         lines.add("BAL: merchant=123456789");
16         lines.add("BAL: merchant=112211");
17         List<Integer> output = balance(lines);
18         for(int o: output) {
19             System.out.println(o);
20         }
21         System.out.println("1");
22     }
23
24     static List<Integer> balance(List<String> lines) {
25         List<Integer> result = new ArrayList<>();
26         Map<String, Integer> map = new HashMap<String, Integer>();
27         for(String command: lines) {
28             command = command.trim();
29             String[] commandParts = command.split("\\s+");
```

```java
30                if(commandParts[0].equals("API:")) {
31                    List<NameValuePair> params =
   URLEncodedUtils.parse(commandParts[1],StandardCharsets.UTF_
   8);
32                    int amount = 0;
33                    String merchant = "";
34                    String destinationAccount = "";
35                    int destinationAmount = 0;
36                    for(NameValuePair nv: params) {
37                        if(nv.getName().equals("amount")) {
38                            amount =
   Integer.valueOf(nv.getValue());
39                        } else
   if(nv.getName().equals("merchant")) {
40                            merchant = nv.getValue();
41                        } else
   if(nv.getName().equals("destination[account]")) {
42                            destinationAccount = nv.getValue();
43                        } else
   if(nv.getName().equals("destination[amount]")) {
44                            destinationAmount =
   Integer.valueOf(nv.getValue());
45                        }
46                    }
47                    System.out.format("amount: %d merchant: %s
   destination[account]: %s destination[amount]: %d %n",
   amount, merchant, destinationAccount, destinationAmount);
48                    int stripVal = Math.round(amount * 0.029f +
   30);
49                    map.put("stripe", map.getOrDefault("strip",
   0) + stripVal);
50                    map.put(destinationAccount,
   map.getOrDefault(destinationAccount, 0) +
   destinationAmount);
```

```java
51                    map.put(merchant,
   map.getOrDefault(merchant, 0) + amount - stripVal -
   destinationAmount);
52            } else if(commandParts[0].equals("BAL:")) {
53                List<NameValuePair> params =
   URLEncodedUtils.parse(commandParts[1],StandardCharsets.UTF_
   8);
54                String merchant = "";
55                for(NameValuePair nv: params) {
56                    if(nv.getName().equals("merchant")) {
57                        merchant = nv.getValue();
58                    }
59                }
60                int value = map.getOrDefault(merchant, 0);
61                result.add(value);
62            }
63        }
64
65        return result;
66    }
67
68}
69
```