

```
1 import java.io.*;
2 import java.util.*;
3
4
5 public class Jordan {
6     public static void main(String[] args) throws
7         IOException {
8         Scanner scan = new Scanner(new File("jordan.dat"));
9         int n = scan.nextInt();
10        while(n-->0){
11            // bring in inputs need long
12            long begin = Long.parseLong(scan.next
13                (),17);
13            long end = Long.parseLong(scan.next
14                (),17);
14            long goal = Long.parseLong(scan.next
15                (),17);
15            int index = 2;//we know the answer
16            will be greater than the second element
17            long val = end+begin;
18            //plan is to keep finding a new
19            interval until goal == val or goal < val
20            while(2*goal>=val){
21                if(goal==val) {
22                    System.out.println(Long.
23                        toString(index+1));
24                    break; //OK ugly but it works
25                    , probably better to adjust the while condition
26                }
27                else if (goal<val){
28                    System.out.println(Long.
29                        toString(end,17).toUpperCase()+" "+Long.toString(
30                            val,17).toUpperCase());
31                    break;
32                }
33                //make the next interval with the
34                coveted swap op
```

```
27         long temp = val;
28         val =val+end;
29         end = temp;
30         index++;
31     }
32
33 }
34 }
35 }
36
```