

```

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

```

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