

Dota 2 Senate

Input → senate = "RD" senate = "RDD"
 Output = "Radiant" Output = "Dire"

Step 1 Convert senate to charArray
 char[] senates = senate.toCharArray();

Step 2 Suppose our charArray is
 char[] senates = ['R', 'D', 'R', 'R', 'D', 'R', 'D']

Step 3 We need to have a cyclic structure as last element can dismiss the 1st element

Step 4 Create Two Queues 'R' & 'D' to store them with their indices

RQueue = 5 3 2 0

DQueue = 6 4 1

Step 5 While loop with condition !RQueue.isEmpty() && DQueue.isEmpty().

Step 6 Poll one element one by one in each Queues
 int r = RQueue.poll();
 int d = DQueue.poll();

Step 7 Whichever is lowest should cancel other one & get appended with index = larger of them + length of senates array

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```
if (r < d) {  
    RQueue.offer((Integer) (d + senabs.length));  
}  
else {  
    DQueue.offer((Integer) (r + senabs.length));  
}
```

Step 8

If !RQueue.isEmpty()

then return "Radiant"

Else

return "Dire"