

week9 rockstar-Q1-report7

[https://community.topcoder.com/stat?c=problem\\_statement&pm=2984%20](https://community.topcoder.com/stat?c=problem_statement&pm=2984%20)

We learned the knowledge about Greedy in the class. The type of practice problem set for this week is Greedy. In this week's practical, I pick the first practice question. This problem name is RockStar and the category of this question is Greedy.

The meaning of this question is that a song can only appear once on an album and at least one of ff, fs, sf or ss will be greater than 0. There are some limitations, a song ends fast must to start fast or a song ends slow must to start slow. If have at least one song starts fast, then the first song on the album must start fast. Otherwise, this restriction can be ignored.

After I understand the meaning of this problem. For this question, firstly I should int Num=0. The important thing is that I need to use Boolean to judge and using the || the logical or, means that multiple conditions as long as one of them is satisfied. Like this:  $ff > 0 \parallel fs > 0$ ;

Then, I use the while(true) to do an unknown number of loops. Next, I need to use the if statement to break out. So, I use the if-else statement to test the condition. And I use two if- else if- else statement to judge.

Like:

```
if (ff > 0) {
    Num = Num + ff;
    ff = 0;
} else if (fs > 0) {
    Num++;
    fs--;
    FS = false;
} else {
    break;
}

if (ss > 0) {
    Num = Num + ss;
    ss = 0;
} else if (sf > 0) {
    Num++;
    sf--;
    FS = true;
} else {
    break;
}
```

Class: RockStar

total\_marks: 86

out\_of: 86

There is a challenge is to prevent the use of these structural statements from creating an endless loop. The benefit of practicing is that to training the skill of writing the rigorous code structure and to reduce the time of solving the problem.