

This week we studied dynamic programming. We're going to study a lot of different types of problems. It is useful to be familiar with the answers to various types of questions.

In this week's practical, I pick the second practice question. This problem name is ElevatorLimit. And the category of this question is Brute Force, Simulation.

For this question, I need to determine the maximum and minimum numbers of people on the elevator before the elevator begins. According to the input data to simulate the elevator up and down, judge the maximum and minimum values.

So, once I understand the meaning of this problem. First of all, I need to use For Loop and to set a variable before the loop starts (`int i = 0`), to define the condition for the loop to run (`i` must be less than the length of enter and `i++`).

Next, to use the `Math.min` and `Math.max` methods to compare the size of two values, return the smallest (largest) of the two values.

Like: `a = a - exit[i];`
 `mina = Math.min(mina, a);`

Then, using the `if-else` statement to test the condition. When the difference between the maximum number of people and the minimum number of people exceeds the `physicalLimit`, it has impossible situation, return an empty array `int []`. In addition, return the value of two elements.

Class: ElevatorLimit

total_marks: 61

out_of: 61

There are some challenges in understanding the simulation of the elevator.

The benefit of practicing is that to training the thoughts and to reduce the time of solving the problem.