2262. Solving Questions With Brainpower

Difficulty: Medium

https://leetcode.com/problems/solving-questions-with-brainpower

You are given a **0-indexed** 2D integer array questions where questions[i] = [points_i, brainpower_i].

The array describes the questions of an exam, where you have to process the questions **in order** (i.e., starting from question 0) and make a decision whether to **solve** or **skip** each question. Solving question i will **earn** you points i points but you will be **unable** to solve each of the next brainpower; questions. If you skip question i, you get to make the decision on the next question.

- For example, given questions = [[3, 2], [4, 3], [4, 4], [2, 5]]:
 - o If question 0 is solved, you will earn 3 points but you will be unable to solve questions 1 and 2.
 - If instead, question 0 is skipped and question 1 is solved, you will earn 4 points but you will be unable to solve questions 2 and 3.

Return the **maximum** points you can earn for the exam.

Input: questions = [[1,1],[2,2],[3,3],[4,4],[5,5]]

Example 1:

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Input: questions = [[3,2],[4,3],[4,4],[2,5]]
Output: 5
Explanation: The maximum points can be earned by solving questions 0 and 3.
- Solve question 0: Earn 3 points, will be unable to solve the next 2 questions
- Unable to solve questions 1 and 2
- Solve question 3: Earn 2 points
Total points earned: 3 + 2 = 5. There is no other way to earn 5 or more points.
```

Example 2:

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Output: 7
Explanation: The maximum points can be earned by solving questions 1 and 4.
- Skip question 0
- Solve question 1: Earn 2 points, will be unable to solve the next 2 questions
- Unable to solve questions 2 and 3
- Solve question 4: Earn 5 points
Total points earned: 2 + 5 = 7. There is no other way to earn 7 or more points.
```

Constraints:

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• 1 <= questions.length <= 10<sup>5</sup>
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• questions[i].length == 2

• 1 <= points_i, brainpower_i <= 10^5