

5982. Solving Questions With Brainpower

My Submissions (/contest/weekly-contest-276/problems/solving-questions-with-brainpower/submissions/)

Back to Contest (/contest/weekly-contest-276/)

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

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 `pointsi` points but you will be **unable** to solve each of the next `brainpoweri` 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]]`:
 - 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.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

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:

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

- `1 <= questions.length <= 105`
- `questions[i].length == 2`
- `1 <= pointsi, brainpoweri <= 105`

JavaScript

```
1 /**
2  * @param {number[][]} questions
3  * @return {number}
4  */
5 var mostPoints = function(questions) {
6
7  };
```