You are assigned to put some amount of boxes onto **one truck**. You are given a 2D array boxTypes, where boxTypes[i] = [numberOfBoxesi, numberOfUnitsPerBoxi]:

* numberOfBoxesi is the number of boxes of type i.
* numberOfUnitsPerBoxiis the number of units in each box of the type i.

You are also given an integer truckSize, which is the **maximum** number of **boxes** that can be put on the truck. You can choose any boxes to put on the truck as long as the number of boxes does not exceed truckSize.

Return *the****maximum****total number of****units****that can be put on the truck.*

**Example 1:**

**Input:** boxTypes = [[1,3],[2,2],[3,1]], truckSize = 4

**Output:** 8

**Explanation:** There are:

- 1 box of the first type that contains 3 units.

- 2 boxes of the second type that contain 2 units each.

- 3 boxes of the third type that contain 1 unit each.

You can take all the boxes of the first and second types, and one box of the third type.

The total number of units will be = (1 \* 3) + (2 \* 2) + (1 \* 1) = 8.

**Example 2:**

**Input:** boxTypes = [[5,10],[2,5],[4,7],[3,9]], truckSize = 10

**Output:** 91

**Constraints:**

* 1 <= boxTypes.length <= 1000
* 1 <= numberOfBoxesi, numberOfUnitsPerBoxi <= 1000
* 1 <= truckSize <= 106