2108. Minimize the Difference Between Target and Chosen Elements

Difficulty : Medium

https://leetcode.com/problems/minimize-the-difference-between-target-and-chosen-elements

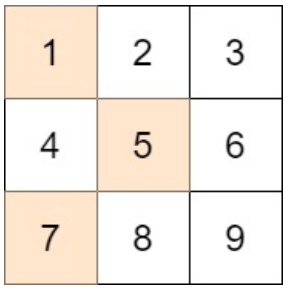
You are given an `m x n` integer matrix `mat` and an integer `target`.

Choose one integer from **each row** in the matrix such that the **absolute difference** between `target` and the **sum** of the chosen elements is **minimized**.

Return *the* ***minimum absolute difference***.

The **absolute difference** between two numbers `a` and `b` is the absolute value of `a - b`.

Example 1:

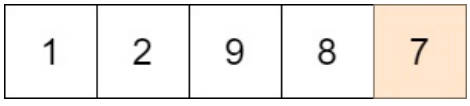



```
Input: mat = [[1,2,3],[4,5,6],[7,8,9]], target = 13
Output: 0
Explanation: One possible choice is to:
- Choose 1 from the first row.
- Choose 5 from the second row.
- Choose 7 from the third row.
The sum of the chosen elements is 13, which equals the target, so the absolute difference is 0.
```

Example 2:


```
Input: mat = [[1],[2],[3]], target = 100
Output: 94
Explanation: The best possible choice is to:
- Choose 1 from the first row.
- Choose 2 from the second row.
- Choose 3 from the third row.
The sum of the chosen elements is 6, and the absolute difference is 94.
```

Example 3:




```
Input: mat = [[1,2,9,8,7]], target = 6
Output: 1
Explanation: The best choice is to choose 7 from the first row.
The absolute difference is 1.
```

Constraints:

- `m == mat.length`
- `n == mat[i].length`
- `1 <= m, n <= 70`
- `1 <= mat[i][j] <= 70`
- `1 <= target <= 800`