Problem G: **Trundling Object**

There is a rectangular cube with dimensions on a table (Face of the cube is on the first rows and first columns of the table). Some of the cells of the table are blue and some are red(Some of the cells may have no color). You can trundle rectangular cube in one of the four directions up, down, left and right if:

1. It completely remains on the table.
2. There will be no red cell under the cube.

When the rectangular cube covers a cell, the color of that cell will be change to black. You should find the maximum number of blue cells that can be change to black.

## **Input**

**First line of Input contains the number of the tests**.

Each test case consists of that shows the dimensions of the cube and that shows the size of table. In the following lines, in each line there are characters that show the colors of the cells of the table.

## **Output**

For each test case, output the maximum number of blue cells that can be turn to black.

|  |  |
| --- | --- |
| **Sample Input** | **Sample Output** |
| **3**  **1 1 1**  **3 3**  **BRB**  **BRB**  **RRR**  **2 1 1**  **3 3**  **BRB**  **BBB**  **RRR**  **2 1 1**  **3 3**  **BRB**  **BBB**  **BBB** | **2**  **2**  **7** |