KOKKU DEV TEST

Modifications

João Fortunato Jr.

• First, I fixed a compilation error, the line responsible for adding a new tile to the grid was being called from the wrong place in the Grid class.

```
public Grid(int Lines, int Columns)
{
    xLenght = Lines;
    yLength = Columns;
    Console.WriteLine("The battle field has been created\n");
    for (int i = 0; i < Lines; i++)
    {
        for(int j = 0; j < Columns; j++)
        {
            GridBox newBox = new GridBox(x:j, y:i, ocupied:false, index:(Columns * i + j));
            grids.Add(newBox);
            Console.Write($"{newBox.Index}\n");
        }
}</pre>
```

- The next step was to refactor the code, starting with the naming of variables and functions following Microsoft Coding Conventions.
- Explicit access modifiers.

- I removed two classes that were in the root of the project, but that were not being used for anything and were expendable.
- It was set to choose the enemy randomly only from 1 to 3, and it should be from 1 to 4, so I fixed it.
- The board size was hard coded.
- The game was not asking for grid size.
- I added input validation.
- I replaced the grid List with a matrix to make it easier to deal with and leaner.
- Removed references to libraries that are not used

```
Using System.Collections.Generic;

Using System.Text;

□namespace AutoBattle
{

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public class Types
{

CharacterClass CharacterClassSpecific
{

CharacterClass CharacterClass;

float hpModifier;

float ClassDamage;

CharacterSkills[] skills;
```

- Player and enemy starting tile were not random.
- Character position variable was passed to Character class instead of Program.
- Rewrote the way to detect the character's action, both attack and movement.
- Classes were created for each character class, instead of just one enum.