Earthcraft prototype 8 points

Introduction

You work in the upcoming amazing sandbox game called Earthcraft. The game will be played from an overhead perspective in a 2D map and will consist on the recollection of materials to build all kind of stuff while you avoid enemies that may attack you.

The head designer has requested to develop a small prototype to show the mechanics of the game to some investors.

In this prototype the objective will be to collect all materials, preventing the player's death.

Input

The input of your game is:

- The size of the map given as the amount of rows and columns.
- Several positions in the map, each of them with only one of the following elements:
 - Empty: represented as '_', by default all map is empty.
 - Player: represented as 'p'. Only one can exist.
 - Material: represented as 'm'
 - Enemy: represented as 'e'
- A dot that separates map setup from movements.
- A sequence of movements, given as a pair (±1, ±1), indicating the rows and columns to advance each round.
 - The player can only walk one position at a time in any direction.
 - If the player walks into a material position, it will be collected. When all materials are collected, the game ends.
 - o If the player walks into an enemy position, they will die and the game ends.

Output

The output will be a matrix, showing each element and the evolution of the movements. Initial state

```
_ p _
_ e m
e _ _
Materials collected 0/1
- - -
_ e p
e _ _
```

Materials collected 1/1

You have collected all the materials! Congratulations!

