5 Pumpkin Patch Predicament

You and a group of friends decide to embrace the fall season and visit a pumpkin patch! Unfortunately as the hangout is coming to an end you realize the evil pumpkin elves have stolen your phone, keys, and wallet, and have scattered them among the patch.

Luckily the patch is only a 10ft square, so searching the area shouldn't take too long. In order to leave you must collect all of your possessions and exit the maze out the rightmost corner, where your friends are waiting for you (cuz u drove lol).

Your task is to find the shortest amount of steps you can take through the 10x10 pumpkin patch grid, while collecting your phone wallet and keys and exiting through the rightmost corner. You must also do so while avoiding stepping on any pumpkins while in the patch, as the elves will surely see to your demise if you do.

Below is an example of the pumpkin patch:

```
   0 1 2 3 4 5 6 7 8 9
0  # # # # # # # # # #
1  # @ @ # # # @ # # #
2  # # # # @ # # # # #
3  # @ # P # # # @ # #
4  # # # @ # # # # # #
5  # # # # # @ # # K #
6  # @ # # # # @ # # #
7  # W # @ # # # # @ #
8  # # # # @ # @ # # #
9  # # @ # # # # # # X
```

Key: P = phone, W = wallet, K = Keys, X = exit, # = walkable space, @ = pumpkin,

5.1 Input

- The first line of input will be the user's starting coordinates into the maze, which will be two integers less than 10, (0-9) separated by a whitespace. The starting points may not be greater than 10 as the maze is a fixed 10x10 grid.
- The second line of input will be the given pumpkin patch grid itself with all 10 lines of input.

5.2 Output

The output will be a single integer which is the shortest number of steps it took the user to find all three items and exit the maze.

5.3 Sample Input/Output

Sample Input	Sample Output
3 3	22