

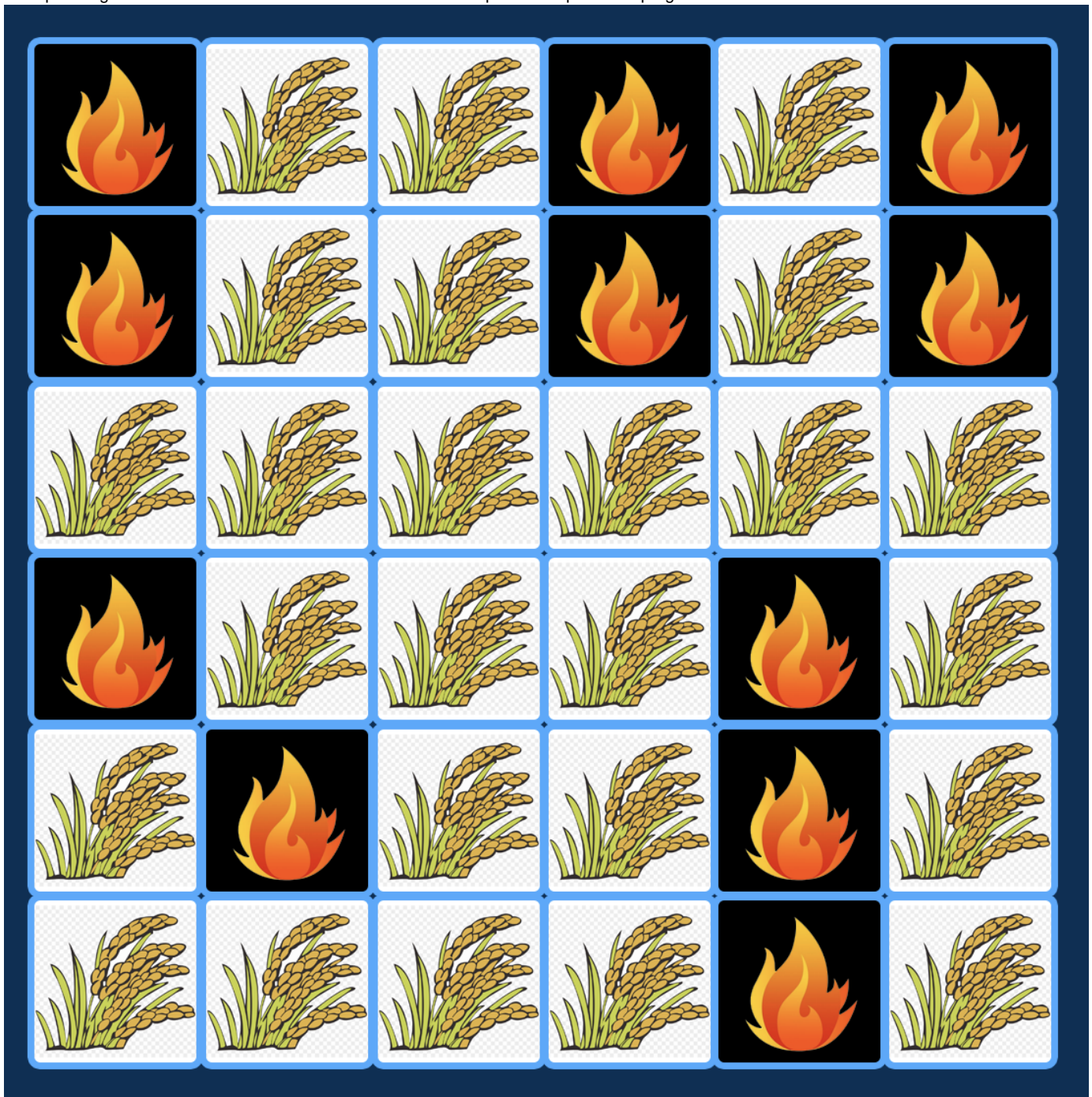
Backend developer preliminary interview task

A farmer's land catches fire in multiple places throughout his land, to effectively fight the fire he needs to evaluate the number of fires and their size in acres. One acre represents 1 square of the field with width X acres and height Y acres.

By inputting the size of the land and the coordinates of the acres that are on fire.

The task is to evaluate the land and find how many fires are currently burning while connected acres count as 1 fire. And for every hour all neighbour acres to an acre on fire also catches fire, output the updated land in a matrix with hourly updates until the whole land is on fire to see how many hours it would take to burn everything.

Example image for the whole land with fire and normal land. It depicts the input of the program in a 6x6 field.



And this is how the number of fires should be counted depicted in the image below:

