Arrays

In the previous exercise, we included an array of directional deltas for convenience:

```
// directional deltas
const int delta[4][2]{{-1, 0}, {0, -1}, {1, 0}, {0, 1}};
```

Arrays are a lower level data structure than vectors, and can be slightly more efficient, in terms of memory and element access. However, this efficiency comes with a price. Unlike vectors, which can be extended with more elements, arrays have a fixed length. Additionally, arrays may require careful memory management, depending how they are used.

The example in the project code is a good use case for an array, as it was not intended to be changed during the execution of the program. However, a vector would have worked there as well.

Let's hear what Bjarne has to say about arrays in C++:

https://video.udacity-data.com/topher/2019/April/5cb97f2a_nd213-c01-prefer-vectors-over-arrays-what-is-an-array-/nd213-c01-prefer-vectors-over-arrays-what-is-an-array-_720p.mp4