

# Safe Array, Part 1

## General Instructions

- Use Visual Studio
- Check your solution before handing it in
- Adhere to conventions
- Make sure the safe array you implement is simple to use, and of course, safe

## Safe Array, Part 1

One of C's famously missing features is a safe array, that is, an array with boundary checks. In this and the following exercises, you will implement this mechanism. As a beginning, we need a way to allocate new arrays with some initial value, free them, and (safely) access an arbitrary element in the array. For now, assume that only `int` arrays are needed. Include a main function with your solution with a usage example of your safe array.