

## EECS 183 Lab 5

### Free Response Practice

**2D Array.** Complete the implementation of the `initArray` function, which sets all of the elements on the border (defined by rows and cols) of the array to 0, and 1 for all elements within the border (again, as defined by rows and cols).

EXAMPLE 1, for `rows = 4` and `cols = 4`:

if borderArray	1 2 0 3	it is set to this after	0 0 0 0
begins as:	0 2 4 6	executing <code>initArray</code> :	0 1 1 0
	5 2 7 9		0 1 1 0
	7 6 3 2		0 0 0 0

EXAMPLE 2, for `rows = 2` and `cols = 4`:

if borderArray	1 2 0 3	it is set to this after	0 0 0 0
begins as:	0 2 4 6	executing <code>initArray</code> :	0 0 0 0

```
/**
 * Requires: rows > 0 and cols > 0
 * rows <= MAX_ROWS and cols <= MAX_COLS
 * Modifies: borderArray
 * Effects : Sets all entries, within bounds of rows and cols,
 *           in borderArray on the perimeter (first and last
 *           row, first and last column) to 0, and 1 otherwise.
 */
void initArray(int borderArray[MAX_ROWS][MAX_COLS],
               int rows, int cols) {
```

```
    return;
}
```