Lecture 09 Ticket

Name: _____

1. Suppose a is an array of binary values of size n. That is, for every index i, we $a[i] = 0$ or 1. Give pseudocode for a procedure that sorts a in $O(n)$ time.

2. Each row below represents a 12-bit binary integer (where the right most bit is the 1s bit, etc). Sort the list of numbers in ascending order.

```
110110100110
100110001001
001000101000
101100111001
000010001010
111100011100
101111001100
010100010010
011011100010
```