

# Problem for Week 11

100 light bulbs with switches are in a line. All are switched OFF.

- At Step 1, all 100 switches are turned ON.
- At Step 2, switches 2, 4, 6, 8, ..., 100 are turned OFF.
- At Step 3, switches 3, 6, 9, 12, ..., 99 are flicked (from OFF to ON or from ON to OFF depending on their status after Step 2).
- At Step 4, switches 4, 8, 12, ... 100 are flicked.
- This pattern continues until Step 100, when switch number 100 is flicked.

*Which bulbs are lighting at the end of the process?*