Batteries Not Included
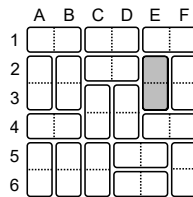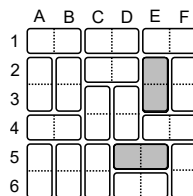
i.)   Column E has no - terminals, so there cannot be a battery in the slot E2/E3. Mark it as empty.

```
   A B C D E F
1 ┌─┬─┬─┬─┬─┬─┐
2 ├─┼─┼─┼─┼▓┼─┤
3 ├─┼─┼─┼─┼▓┼─┤
4 ├─┼─┼─┼─┼─┼─┤
5 ├─┼─┼─┼─┼─┼─┤
6 └─┴─┴─┴─┴─┴─┘
```

ii.)   Row 6 has 3 - terminals and 3x + terminals, so there must be a battery in every slot in that row. We don't know their orientation, but since row 5 only has 4x - terminals and 4x + terminals, the slot in D5/E5 must be empty.

```
   A B C D E F
1 ┌─┬─┬─┬─┬─┬─┐
2 ├─┼─┼─┼─┼▓┼─┤
3 ├─┼─┼─┼─┼▓┼─┤
4 ├─┼─┼─┼─┼─┼─┤
5 ├─┼─┼─┼▓┼▓┼─┤
6 └─┴─┴─┴─┴─┴─┘
```

iii.)   For Column C to have 3x + terminals, the slot in C3/C4 must contain a battery. And since Row 4 contains only one of each sort of terminal, slots A4/B4 and E4/F4 must both be empty.

```
   A B C D E F
1 ┌─┬─┬─┬─┬─┬─┐
2 ├─┼─┼─┼─┼▓┼─┤
3 ├─┼─┼─┼─┼▓┼─┤
4 ├▓┼▓┼─┼─┼▓┼▓┤
5 ├─┼─┼─┼▓┼▓┼─┤
6 └─┴─┴─┴─┴─┴─┘
```
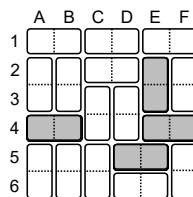
iv.)   Column A needs 3x + terminals. That means there must be a battery in A1/B1, with its positive terminal in A1. There must then also be battery in A2/A3 and, since like terminals cannot touch, it must have its negative terminal in A2.

```
   A B C D E F
1 ┌+┬-┬─┬─┬─┬─┐
2 ├-┼─┼─┼─┼▓┼─┤
3 ├+┼─┼─┼─┼▓┼─┤
4 ├▓┼▓┼─┼─┼▓┼▓┤
5 ├─┼─┼─┼▓┼▓┼─┤
6 └─┴─┴─┴─┴─┴─┘
```
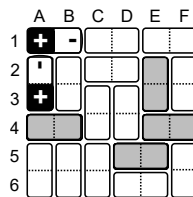
v.) Column F needs 3x - terminals. That means there must be a battery in E1/F1, with its negative terminal in F1. There must then also be a battery in F2/F3 and, since like terminals cannot touch, it must have its positive terminal in F2.
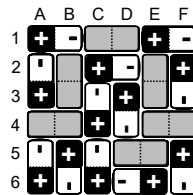
```
   A B C D E F
1 ┌+┬-┬─┬─┬+┬-┐
2 ├-┼─┼─┼─┼─┼+┤
3 ├+┼─┼─┼─┼─┼-┤
4 ├▓┼▓┼─┼─┼▓┼▓┤
5 ├─┼─┼─┼▓┼▓┼─┤
6 └─┴─┴─┴─┴─┴─┘
```
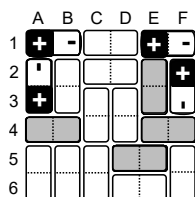
Column E needs 2x + terminals. Therefore the battery in D6/E6 must have its positive terminal in E6. Following the rule that like terminals cannot touch, that allows all batteries in rows 5/6 to be placed. This should also complete column A.
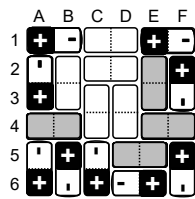
Column B now has the required terminals, so slot B2/B3 can be marked empty. Row 1 also has all the required terminals, so C1/D1 can be marked empty.
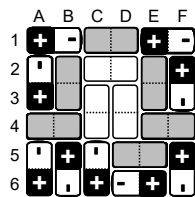
The remaining slots must all be filled, and there is only one way to do so respecting the rule that like terminals cannot touch.

Solution: FREE OF CHARGE