Ex. Array 6

Ex. Two Dice

$2 \leq \text{Sum} \leq 12$

$P(\text{Sum}=4) = \frac{3}{36}$
\[
\begin{align*}
\text{freq } 100 & = ? & \text{prob } 100 & = \frac{1}{36} \\
\text{freq } 11 & = ? & \text{prob } 11 & = \frac{1}{36} \\
\text{freq } 2 & = 1 & \text{prob } 2 & = \frac{1}{36} \\
\text{freq } 3 & = 2 & \text{prob } 3 & = \frac{2}{36} \\
\text{freq } 4 & = 3 \\
\text{freq } 12 & = 1 & \text{prob } 12 & = \frac{1}{36}
\end{align*}
\]

Note: length = 13.

**Exercise**

Three Dice

Four Dice

**Exercise**

Five Dice
Ex. Room

Two ways to count # of neighbors having bombs:

1) For each cell, count # of neighbors having bombs

2) For each cell, if this cell was a bomb, increment the bomb count of each of its neighbors.

We use option (2).
Exercise

- re-write: with action (1)
- re-write: simplicity mouse/pressed/(1) without loop calculate from (mouseX, mouseY) which cell you're in.

- resize font with side length
- show all bombs at end.
- announce win.
- add sound.