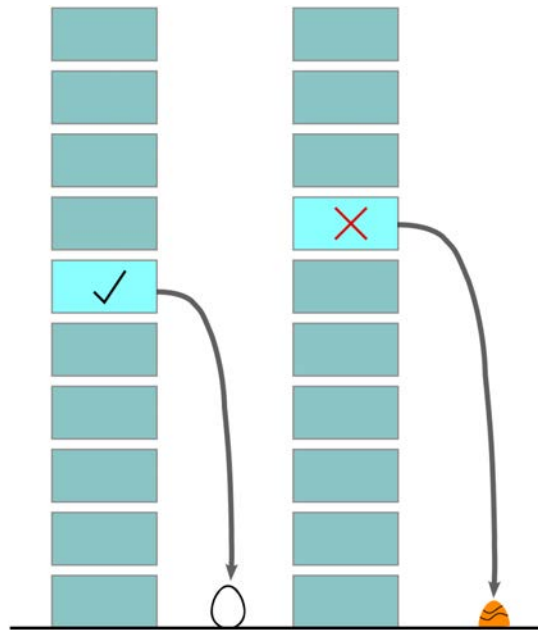


Puzzle of the Week

Egg Drop to 100

There is a new type of single-egg container to test. You are given a container, two eggs, and access to a one hundred-story building. You want to see how high up you can drop an egg in one of these containers and not have the egg break.

You could simply drop an egg from each floor, starting with the first floor, and see where the egg breaks for the first time. However, if the containers are really good, that would mean one hundred egg drops. How can you find out how good the container is with fewer drops?



THE CHALLENGE: Find a method that uses the fewest total number of drops, no matter how good or bad this new container is, to discover the highest floor in this one hundred-story building you can safely drop an egg from.

EXPLORATION: How would your strategy change if you had three eggs to work with?