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Web Programing Fundamentals – S2

Problem Solving Activity

A Cat, a Parrot, and a Bag of Seed:

**Problem**: Can’t leave the cat and parrot together, cat will eat the parrot. If you leave the parrot and bag of seed, it will eat the seed.

**Possible Solution**: Going to have to take multiple trips with the boat driver.

First solution: Leave the cat and bag of seed. Cant leave the parrot and seed, or cat and parrot.

**First**, take the parrot over and leave it on the side. Go back and get the cat. Bring it to the other side and bring the parrot back with you. Leave the parrot, and bring the bag of seed to the other side and leave it with the cat. Go back and pick up the parrot.

Socks in the Dark:

**Problem**: with 20 pairs of socks, we need to select at least one matching pair, and one matching pair of each color, all while selecting them in the dark.

**A. Possible Solution for one matching pair**: You need to pull 4 socks. Say on the first 3 pulls you get one black, one brown, and one white. Your next pick will have to be one of the 3 colors, giving you one matching pair of socks.

B. **At least one matching pair of each color:** You would need to pull 12 socks. Since it takes 4 socks to have one matching colored pair, you would have to pull 12 in order to guarantee 3 pairs of each color.