Problem 1: A cat, a Parrot, and a Bag of Seeds

1. Define the problem

Man has to get a cat, a parrot, and a bag of seeds across a river without them eating each other.

The Cat and Parrot can’t be left alone or the cat will eat the Parrot.

The Parrot and Seeds can’t be left alone or the Parrot will eat the Seeds.

He can only take one thing at a time across the river.

1. Break the problem apart

1. Can’t leave the Cat or Parrot, and the Parrot or Seeds.

2. You can only take 1 thing at a time.

1. Identify potential solutions

1. You can leave the Cat and Seeds.

2. You could bring one of the items back with you.

1. Evaluate each potential solution

He can only leave the cat and seeds alone together, so he has to take the Parrot across first.

If he always has the Parrot with him nothing well every get eaten because the Parrot is needed in both scenarios that something gets eaten.

1. Choose a solution and develop a plan to implement it.

Take the Parrot across first. (Leaving the Cat and Seeds together, which is fine)

Then take the seeds across, but he can’t leave the seeds with the Parrot so he brings the Parrot back with him.

Then take the Cat across (Now that seeds and cat are across and the Parrot is back at the start)

Finally bring the Parrot back across to complete the task.

Problem 2

1. Define the problem
2. Break the problem apart
3. Identify potential solutions
4. Evaluate each potential solution
5. Choose a solution and develop a plan to implement it.

Problem 3

1. Define the problem
2. Break the problem apart
3. Identify potential solutions
4. Evaluate each potential solution
5. Choose a solution and develop a plan to implement it.