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Word Programming Fundamentals

Problem Solving Assignment

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

1. Define the problem

a. Problem is getting all items across the river without one of the animals eating another item.

b. one item can fit into the boat at ALL times

c. over all goal is to get everything across the river in the same state that it is in on the current side of the river.

2. Break the problem apart

a. Only being able to fit one item in the boat at a time with the man

b. - get cat across river

- get bird across river

- get seed across river

3. Identify potential solutions

a. bring one item back across the river after having taken another one

4. Evaluate each potential solution

a. yes

b. yes

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

a. Man takes bird across river, then goes back and gets the cat, he then picks bird back up and takes it back across river so that the cat doesn’t eat the bird, he drops the bird off and picks up the seed and takes it across the water. This leaves the bird on one side of the river and the cat and the seed on the other. The man makes one last trip to get the bird putting the man, parrot, cat, and seed all on one side of the river with no one or nothing eaten.

b. No test cases were needed as this was an easy to solve problem.