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Web Programming Fundamentals

Problem Solving

Problem 1

1a. A man needs to get his cat, parrot and a bag of seed across a river using a boat that will only hold himself and one passenger. The problem is that the cat can’t be left alone with the parrot, and the parrot can’t be left alone with the seed.

1b. It doesn’t say anything about how many trips it has to take and there is no way to only make 3 trips without leaving an incompatible pair together on one side or the other.

1c. The overall goal is to get everything to the other side of the river and keep it all intact.

2a. The constraints for this problem would be the fact that the man can only take 1 other item with himself in the boat at a time and that the cat cannot be left with the parrot and the parrot cannot be left with the seed.

2b. The sub-goals would be to not just get everything across the river, but to not have the cat eat the parrot or the parrot eat the seed.