**1) A: Define the problem:** A man has to transport a cat, a parrot, and a bag of seed to the other side of the river. He only has room in his boat for himself and one other item. How can he transport himself and the other three items safely? He also has to watch which items he leaves together since the cat will eat the parrot and the parrot will eat the bag of seed. The overall goal is for the man and the three items to make it safely across the river.

**1) B: Break the problem apart:** The constraints are that the man has to be careful which items he leaves together. The cat will eat the parrot and the parrot will eat the bag of seed. Which items does he leave together since he can only take one other item beside himself at a time? The sub goal would be to figure out which items can be together safely.