**Jesse White**

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**SDI**

A cat, a parrot, and a bag of seed.

Define the problem

a)

I need to get all the objects across the river, all while carrying no more than one object at a time.

b)

The only two things that can be together at the same time is the cat and the seed.

c)

The overall goal is to move all three of the objects from one side of the river to the

other.

Break the problem apart

a)

The constraints are:

The parrot

The cat

The seed

b)

The sub-goal would be to prevent all of the objects from perishing.

Identify potential solutions

a)

To keep the cat from eating the parrot and the parrot from eating the seed those two combinations need to be avoided.

Evaluate  each  potential  solution

a)

Yes, each solution meets the goals.

b)

Yes, each solution works for all cases.

Choose  a  solution  and  develop  a

plan  to  implement  it.

a)

Since the cat can be left with the seed then the parrot should be transported first.

Then the seed could be brought over.

The parrot would then be taken back across so that it would not eat the seed.

The parrot could then be dropped off and the cat would be picked up.

Once the cat and the seed are both on the opposite shore the parrot could be

picked up and taken across.

b)

I imagined that I was the person trying to move these objects across the river and came up with the solution fairly quickly from there.