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Web Programming Fundamentals

Problem Solving

**A Cat, a Parrot and a Bag of Seed**

**1) Define the problem**

a) A man needs to transport a cat, a parrot and a bag of seed to the other side of the river without the cat eating the parrot or the parrot eating the seed.

b) The parrot might be able to fly to the other side

c) The overall goal is to get the parrot, the cat and the bag of seed to the other side of the river.

**2) Break the problem apart**

a) In the mans absence, the cat could eat the parrot and the parrot would eat the seed

b) Prevent the cat from eating the parrot and prevent the parrot from eating the seed

**3) Identify potential solutions**

a) Have the parrot fly to the other side or take the parrot first to prevent the cat from eating the parrot and to prevent the parrot from eating the bag of seed

**4) Evaluate each potential solution**

a) No, each potential does not meet the goals

b) No, each potential will not work for all cases

**5) Choose a solution and develop a plan to implement it**

a) He can take the cat across first and then go back to get the seed and have the parrot fly across

**Socks in the Dark**

**1) Define the problem**

a) It is dark and you cannot see which socks you are choosing

b) Just pick some socks

c) Pick at least one matching pair and pick at least one matching pair of each color