

# Flip the Coin

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One Day you return Home and find a lamp. On rubbing it, A genie appears and gives you an offer. If you solve a simple puzzle, he will grant you 3 wishes. He places 10 coins in front of you on the table. The coins are so made it is impossible to figure the head and tail of the coin by touching. You are told that there are 5 coins with the head facing up and 5 coins with the tail facing up, but you don't know the sequence or which coin has which face.

Can you make two separate sets of coins, each with the same number of tails up? You can flip the coins any number of times.

**FOR SOLUTION SCROLL TO THE NEXT PAGE!!!!**

**Solution:**

**Make two sets of coins, with each having 5 coins,**

**For Example, Set-1: H H T T T and Set-2: T H T H H**

**Now rotate all the coins in Set-2, which would give, Set-1: H H T T T and Set-2: H T H T T. Each set has 3-3 Tails.**

**Similarly, the algorithm works for any set with equal coins with any sequence.**