

15

More interfaces

More recursion

More fun?

Check out RecursiveHelperFunctions and  
DiscountInterfaces from SVN

- Solve the `sumArray` function recursively (it's in the Recursive Helper Functions project)
- You can work with friends, but each of you should get the code working on your own computer

# Recursive Helper Function

- Often the initial function you're given is not in the ideal form for a recursion
- A recursive helper function is a recursive function that another (non-recursive) function calls...but the non-recursive function doesn't do much
- Often named coolFunction and coolFunctionHelper – where 90% of the code is in coolFunctionHelper
- The non-recursive function often just adds some initial parameters or modifies the final return value

- Solve the other problems in RecursiveHelperFunctions – all the problems will require you to create a recursive helper function
- You can work with a friend but make sure both of you write the code
- If you finish early, work on the RecursionPractice homework assignment (none of these need recursive helper functions)

# DiscountInterfaces

- Get in groups of 2-3...no one working alone
- Understand the given code and the duplication problem plus the additional features you will be adding
- Design a solution using interfaces and make a UML diagram describing it
- Then get me or a TA to check it out
- Once we sign off – start coding – you only need 1 computer for this one. Follow the steps in the Main comment