

# ADT Exercises

## Bank Account ADT Requirements

- Withdraw money from account
- Deposit money into account
- Fastcash – Withdraw the amount specified in the fast cash amount field
- Check balance
- Get the current amount for fast cash transactions
- Set the current amount for fast cash transactions Set whether bill prints
- Get whether the customer wants a bill printed for each transaction  
Set whether the customer wants a bill printed for each transaction
- Set the interest rate
- Get current interest rate
- Get interest accrued so far
- Pay interest into the account

## Calorie Counter ADT requirements

- Eat – Adds the number of fat, carb, and protein calories to total count
- Get amount of fat calories since last reset
- Get amount of protein calories since last reset
- Get amount of carb calories since last reset
- Reset all calorie counters
- isOverweight – returns true if percentage of fat is >30% but less than 50%
- isObese - returns true if percentage of fat is greater than 50%
- percentFat – returns the percent of fat since the last reset

## String Mangler ADT requirements

- Set a string that is to be manipulated
- Substitute the first occurrence of a particular character with another character
- Attach an additional string to the string being manipulated
- Truncate the string being manipulated by a specified number of characters
- Get the current incarnation of the string
- Reset the mangler