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| **Bank** |
| \_\_transactionQueue: Queue |
| accountInfoTree: BST |
| Bank() |
| readTransactions(inFile: string) |
| processTransactions() |
| displayAllAccounts() |
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| openAccount(inTransaction: Transaction): bool |
| deposit(inTransaction: Transaction): bool |
| withdraw(inTransaction: Transaction):bool |
| transfer(inTransaction: Transaction): bool |
| history(inTransaction:Transaction): bool |
| \_\_str\_\_(): string |
| \_\_repr\_\_():string |

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| **Transaction** |
| transactionType: string |
| firstName: string |
| lastName: string |
| accountID: int |
| anotherAccountID: int |
| fundTypeID: int |
| anotherFundTypeID: int |
| amount: int |
| validTransaction: bool |
| Transaction() |
| getTransactionType(): string |
| getFirstName(): string |
| getLastName(): string |
| getAccountID(): int |
| getAnotherAccountID(): |
| getFundTypeID(): int |
| getAnotherFundTypeID(): int |
| getAmount(): int |
| getValidTransaction(): bool |
| setTransactionType(inTransactionType: string): string |
| setFirstName(inFirstName: string): string |
| setLastName(inLastName: string): string |
| setAccountID(inAccountID: int): int |
| setAnotherAccountID(inAccountID: int): |
| setFundTypeID(inFundTypeID: int): int |
| setAnotherFundTypeID(inFundTypeID: int): int |
| setAmount(inAmount: int): int |
| \_\_str\_\_(): string |
| \_\_repr\_\_(): string |
| readTransactions |

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| **Fund** |
| \_\_fundName: string |
| balance: int |
| history[] |
| Fund() |
| Fund(inFundName: string, inBalance: int) |
| getFundName(): string |
| getBalance(): int |
| setFundName(inFundName: string) |
| setBalance(inBalance: int): |
| deposit(inAmount: int): |
| Withdraw(inAmount: int) |
| addHistory(inHistory: Transaction) |
| displayHistory() |
| \_\_str\_\_(): string |
| \_\_repr\_\_(): string |

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| **Account** |
| NUMBEROFFUNDS: int |
| \_\_firstName: string |
| \_\_lastName: string |
| \_\_id: int |
| funds[NUMBEROFFUNDS: int]: Fund |
| Account() |
| Account(inFirstName: string, inLastName: string, inID: int) |
| getFirstName (): string |
| getLastName (): string |
| getID(): int |
| setFirstName (inFirstName: string): bool |
| setLastName(inLastName: string): bool |
| setID(inID: int): bool |
| getFund(inFundNumber: int): Fund |
| getFundBalance(inFundNumber: int): int |
| displayAllFunds() |
| displayFund(inFundNumber: int) |
| \_\_eq\_\_(rhs: Account): bool |
| \_\_ne\_\_(rhs: Account): bool |
| \_\_lt\_\_(rhs: Account): bool |
| \_\_gt\_\_(rhs: Account): bool |
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| \_\_str\_\_(): string |
| \_\_repr\_\_():string |

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| **BST** |
| root: Node |
| size: int |
| BST(): |
| get(key: object): object |
| put(key: object, value: object): bool |
| remove(key: object): bool |
| size(): int |
| isEmpty(): bool |
| traverse(action(value: object): function, typeOfTraversal: string) |
| contains(key: object): bool |
| \_\_str\_\_(): string |
| \_\_repr\_\_():string |
| \_\_getitem\_\_() |

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| **Node** |
| \_\_key: |
| \_\_value: |
| \_\_leftChild: Node |
| \_\_rightChild: Node |
| Node(key: object, value: object) |
| Setters and Getters for key, data, children |
| isLeaf(): bool |

