

"Interface"  
Filter  
accept(): boolean

java.lang.Exception

is.

InvalidAccountNumber  
+ InvalidAccountNumber()  
+ InvalidAccountNumber(String)

BankAccount  
- name: String  
- account: int  
# balance: double  
+ minBalance: double  
+ BankAccount()  
+ BankAccount(String name, int account, double balance)  
+ getName(): String  
+ getAccount(): int  
+ getBalance(): double  
+ deposit(double amount): void  
+ withdraw(double amount): boolean  
+ equals(BankAccount): boolean  
+ compareTo(BankAccount): int  
+ accept(): boolean  
+ toString(): String

"Interface"  
Comparable < BankAccount >

InvestmentAccount  
- accountType: String  
+ InvestmentAccount()  
+ InvestmentAccount(String name, int account, double balance, String accountType)  
+ getType(): String  
+ setType(String type): void  
+ applyRisk(): double  
+ toString(): String

SavingsAccount

- yearlyInterestRate: double  
+ SavingsAccount()  
+ SavingsAccount(String name, int account, double balance, double yearlyInterest)  
+ getInterestRate(): double  
+ setInterestRate(double annualRate): void  
+ applyMonthlyInterest(): double  
+ toString(): String

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Bank

- name: String  
- branch: String  
- bankAccounts: BankAccount[]  
+ monthlyFee: double  
+ Bank()  
+ Bank(String name, String branch, BankAccount[] listAccounts)  
+ Bank(String name, String branch, int maxAccounts, String filename)  
+ findAccount(int accountNumber): BankAccount  
+ saveAccountToFile(String filename): void  
+ viewBalance(int account): double  
+ deposit(int account, double amount): void  
+ withdraw(int account, double amount): boolean  
+ applyMonthlyFee(): void  
+ filterAccounts(): BankAccount[]  
+ sortAccounts(): void  
+ viewAllAccounts(): void