class Account {

float principal;

float rate;

int daysActive;

int accountType;

public static final

int STANDARD = 0;

public static final int BUDGET = 1;

public static final int PREMIUM = 2;

public static final

int PREMIUM\_PLUS = 3;

float interestEarned( ) {

**float years = daysActive / (float) 365.25;** **float compoundInterest = principal \* (float) Math.exp( rate \* years );**

**return ( compoundInterest - principal );**

}

public boolean isPremium( ) {

if (accountType == Account.PREMIUM || accountType == Account.PREMIUM\_PLUS)

return true;

else

return false;

}

}

float calculateFee(Account accounts[]) {

float totalFee = 0;

Account account;

for (int i = 0; i < accounts.length; i++) {

account = accounts[i];

if ( account.isPremium( ) ) {

totalFee += BROKER\_FEE\_PERCENT \* account.interestEarned( ); }

}

return totalFee;

}

static final double BROKER\_FEE\_PERCENT = 0.0125;