tags: Objects, Recursion

public class Account {

private Account myParent;
private int myBalance;

Problem

Below is a modification of code from the Account class. Read the syntactically valid code provided and debug the method removePoorParents (). This method should remove any parent from the chain of parents that has a balance less than 1,000. An Account that has their parent Account removed should still be able to access the parent of their former parent Account (Assuming that parent Account has a balance of 1000 or greater.)

Fill in the main method below with code to demonstrate the logical error in removePoorParents (). Also fill in the blanks to explain the error.

```
public Account(int balance, Account parent) {
      this.myBalance = balance;
      this.myParent = parent;
 public void removePoorParents() {
      if (this.myParent != null) {
           if (this.myParent.myBalance < 1000) {</pre>
                this.myParent = this.myParent.myParent;
                if(this.myParent == null) {
                    return;
           this.myParent.removePoorParents();
 public static void main(String[] args) {
/* At this point _____ is ____
* but it should be _____
```