

## QUESTION

Write a C++ class called "BankAccount" that has the following member variables:

1. A string to store the account holder's name
2. A double to store the account balance
3. An int to store the account number

The class should have the following member functions:

- A constructor that takes in the account holder's name, account balance, and account number as parameters, and sets the corresponding member variables to these values.
- A function called "deposit" that takes in a double as a parameter and adds this amount to the account balance.
- A function called "withdraw" that takes in a double as a parameter and subtracts this amount from the account balance if there are sufficient funds, otherwise return insufficient funds.
- A function called "getBalance" that returns the current balance of the account.
- A function called "getName" that returns the name of the account holder.
- A function called "getNumber" that returns the account number.
- A function called "transfer" that takes in another BankAccount object and a double as parameters and transfers the specified amount from the current account to the other account, if there are sufficient funds.
- A function called "printStatement" that prints out the account holder's name, account number, and all transactions (deposits and withdrawals) that have taken place on the account.
- A function called "setName" that takes in a string as a parameter and sets the account holder's name to the new name.
- A function called "setNumber" that takes in an int as a parameter and sets the account number to the new number.