

You have been tasked with writing a program for a popular bank that will automate all its incoming transactions (transfer, deposit, and withdraw). The bank has n accounts numbered from 1 to n. The initial balance of each account is stored in a **0-indexed** integer array balance, with the (i+1)th account having an initial balance of balance [i].

Execute all the valid transactions. A transaction is valid if:

- The given account number(s) are between 1 and n, and
- · The amount of money withdrawn or transferred from is less than or equal to the balance of the account.

Implement the Bank class:

- Bank(long[] balance) Initializes the object with the **0-indexed** integer array balance.
- boolean transfer(int account1, int account2, long money) Transfers money dollars from the account numbered account1 to the account numbered account2. Return true if the transaction was successful, false otherwise.
- boolean deposit(int account, long money) Deposit money dollars into the account numbered account. Return true if the transaction was successful, false otherwise.
- boolean withdraw(int account, long money) Withdraw money dollars from the account numbered account. Return true if the transaction was successful, false otherwise.

Example 1:

```
Input
["Bank", "withdraw", "transfer", "deposit", "transfer", "withdraw"]
[[[10, 100, 20, 50, 30]], [3, 10], [5, 1, 20], [5, 20], [3, 4, 15], [10, 50]]
Output
[null, true, true, true, false, false]
```

```
class <mark>Bank:</mark>
   def __init__(self, balance: List[int]):
       self.balance = balance
       self.n = len(balance)
   def helper_valid(self, acc):
       return 0 <= acc <= self.n
   def transfer(self, account1: int, account2: int, money: int) -> bool:
       if not_self.helper_valid(account1) or not self.helper_valid(account2) or self.balance[account1-1] < money:
           return False
       self.balance[account1-1] -= money
       self.balance[account2-1] += money
       return True
   def deposit(self, account: int, money: int) -> bool:
       if not self.helper_valid(account):
           return False
       self.balance[account-1] += money
       return True
   def withdraw(self, account: int, money: int) -> bool:
       if not self.helper_valid(account) or self.balance[account-1] < money:</pre>
           return False
       self.balance[account - 1] -= money
```