

Develop a program called ABC ATM. It allows customers to deposit and withdraw in these denominations: 2000, 500, 200, 100 rupee notes.

Deposit: Customer inputs the number of currency notes in each denomination

D.1) If any input values are negative, print "Incorrect deposit amount".

D.2) If all the input values are zero, print "Deposit amount cannot be zero".

D.3) If the input values are valid, increment the balances of corresponding rupee notes and print the available new balances in each denomination and the total balance.

Withdraw: Customer input the amount to withdraw. ATM dispenses the 2000, 500, 200, and 100 rupee notes needed.

W.1) If the input amount is zero, negative, or over the current balance, print "Incorrect or insufficient funds".

W.2) If the input amount is in valid range, print the number of currency notes dispensed in each denomination. Use the available higher denomination first. Also, print the available new balances in each denomination and the total balance.

For example,

Deposit 1: 2000s: 8, 500s: 10

Balance: 2000s=8, 500s=10, 200s=0, 100s=0, Total=21000

Deposit 2: 2000s=3, 500s=3, 200s=10, 100s=5

Balance: 2000s=11, 500s=13, 200s=10, 100s=5, Total=31000

Withdraw 1: 7500

Dispensed: 2000s=3, 500s=3

Balance: 2000s=8, 500s=10, 200s=10, 100s=5, Total=23500

Withdraw 2: 1200

Dispensed: 500s=2, 200s=1

Balance: 2000s=8, 500s=8, 200s=9, 100s=5, Total=22300

Withdraw 3: 25300

Output: "Incorrect or insufficient funds"

Withdraw 4: 000

Output: "Incorrect or insufficient funds"

Withdraw 5: -2500

Output: "Incorrect or insufficient funds"

Note: Please develop this program to support in future to use denominations like 1000s and 50s.
This implementation should happen with less code change or no code change

Please apply all the java coding standard.