

Deposit
amount \Rightarrow

new_balance : balance + amount

Withdraw 1000 1100

balance

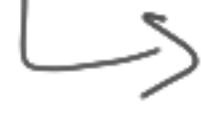
amount



amount < balance ✓



check pin ✓



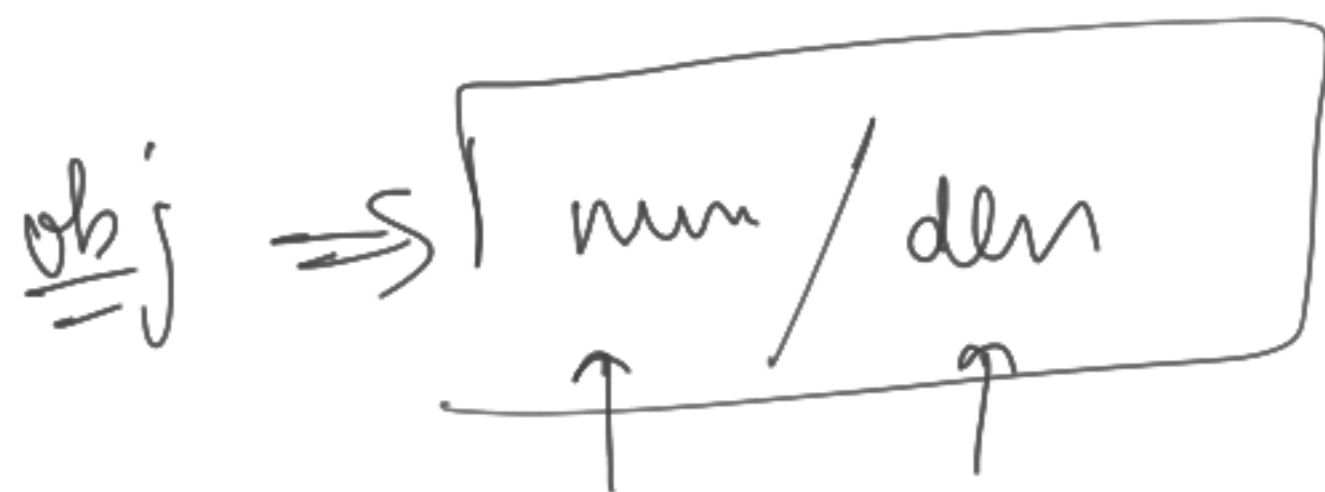
amount is invalid



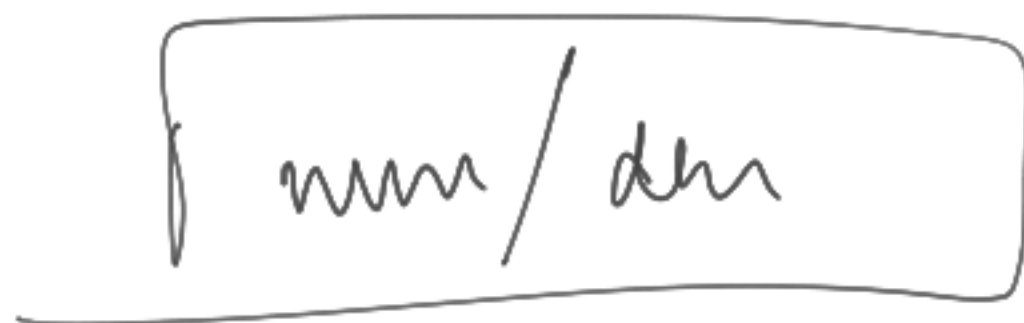
incorrect pin

: new_balance = balance - amount

fraction class



-- init --
num, den



$\downarrow \text{obj 1}$
 $7 \times \underline{3}$
 $\downarrow \text{obj 2}$
 $\underline{2 \times 5}$
 7×5
 $\underline{7 \times 5}$

$$\frac{21}{35} + \frac{10}{35} = \frac{31}{35}$$

$$\frac{\text{num 1}}{\text{den 1}} + \frac{\text{num 2}}{\text{den 2}} = \frac{\text{num 1} \times \text{den 2} \oplus \text{num 2} \times \text{den 1}}{\text{den 1} \times \text{den 2}}$$

$$\frac{3}{5} \div \left(\frac{2}{7} \right)$$

$$= \frac{3 \times 7 + 2 \times 5}{5 \times 7} = \frac{21 + 10}{35} =$$

$$\frac{3}{5} \times \frac{7}{2}$$

$$= \frac{31}{35}$$