

CreditCard

$((limit, balance, INIT, withdraw, deposit, withdrawAvail)$

$limit : \mathbb{N}$

$limit \in 1000, 2000, 5000$

$balance : \mathbb{Z}$

$balance + limit \geq 0$

$INIT$

$balance = 0$

$withdraw$

$\Delta(balance)$

$amount? : \mathbb{N}$

$amount? \leq balance + limit$

$balance' = balance - amount?$

$deposit$

$\Delta(balance)$

$amount? : \mathbb{N}$

$balance' = balance + amount?$

$withdrawAvail$

$\Delta(balance)$

$amount! : \mathbb{N}$

$amount! = balance + limit$

$balance' = -limit$