CreditCard

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

$limit : \mathbb{N}$

$limit \in 1000, 2000, 5000$

$balance : \mathbb{Z}$

$balance + limit \geqslant 0$

INIT

$balance = 0$

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withdraw

$\Delta(balance)$

$amount? : \mathbb{N}$

$amount? \leqslant balance + limit$

$balance' = balance - amount?$

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deposit

$\Delta(balance)$

$amount? : \mathbb{N}$

$balance' = balance + amount?$

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withdrawAvail

$\Delta(balance)$

$amount! : \mathbb{N}$

$amount! = balance + limit$

$balance' = -limit$