Langu 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

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Your Task

- 1. Evaluate each line of stdin, performing the actions as described by documentation below.
 - Each line will always begin with an API method, followed by a colon and a space, then followed by comma separated

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	1. Evaluate each line of stdin, performing the		15	
ALL	 actions as described by documentation below. Each line will always begin with an API 		16	
ALL	method, followed by a colon and a space,		17	
	then followed by comma separated		18	
1	parameters for the API method, in order of		19	
	the documentation.		20	
	2. After evaluating all actions, print out a list of		21	
1	\$merchant_id,\$outstanding debt pairs.		22	
	skipping over merchants who do not have an		23	
	outstanding balance. This list should be		24	
	lexicographically sorted by the merchant ID.		25	
*			26	
	Keep in mind:	::	27	
	Keep in inina:		28]	1
			29	
	• We will not took		30 > p	ub
	We will not test you against unparsable input formats. Handle them as you see fit.			
	We will evaluate both code correctness and code quality.			100
	You are allowed to refer the web to make use of various resources, tools, and documentation. However, do not copy code verbatim.			Section of the least
	API Documentation			
	CREATE_LOAN: Merchant initiates a loan.			

X	CREATE_LOAN: Merchant initiates a loan.	
	Fields	
ALL	 merchant_id: The ID of the merchant. (String; non-empty) 	
0	loan_id: The ID of the merchant's loan. (String; non-empty)	
1	 amount: The initial loan amount. (Integer; x >= 0) 	
	Ex: CREATE_LOAN: merchant1,loan1,1000	U
	PAY_LOAN: Merchant pays off their loans on a one-time basis.	
	Fields	l ii
	 merchant_id: The ID of the merchant. (String; non-empty) 	
	loan_id: The ID of the loan to pay off. (String; non-empty)	
	 amount: The amount given back to Stripe. (Integer; x >= 0) 	
	Ex: PAY_LOAN: merchant1,loan1,1000	
	INCREASE_LOAN: Merchant increases an existing loan.	
	Fields	

6m left	INCREASE_LOAN: Merchant increases an	Langua
	existing loan.	1 >
H		14
	Fields	15 0
ALL	merchant_id: The ID of the merchant. (String;	16
-	non-empty)	17
	loan_id: The ID of the loan to increase. (String;	18
0	non-empty)	19
	amount: The amount to increase the loan by.	20 21
1	(Integer; x >= 0)	22
		23
	Ex: INCREASE_LOAN: merchant1,loan1,100	24
		25
	TRANSACTION_PROCESSED: A single transaction. A portion of the transaction amount is	26
	withheld to pay down the merchant's	27
	outstanding loans.	28 }
		29
	Fields	30 > pub
	merchant_id: The ID of the merchant processing the transaction. (String; non-empty)	
	loan_id: The ID of the loan to pay off for this transaction. (String; non-empty)	
	amount: The amount the transaction processed. (Integer; x >= 0)	
	 repayment_percentage: The percentage of the transaction amount that goes towards repayment. (Integer; 1 <= x <= 100) 	
	Ex: TRANSACTION_PROCESSED:	
	merchant1,loan1,500,10	Test Result

m left	Ex: INCREASE_LOAN: merchant1,loan1,100	Lang	guag
H	TRANSACTION_PROCESSED: A single transaction. A portion of the transaction amount is withheld to pay down the merchant's outstanding loans.	1 14 15 16	> iii
ALL (i)	Fields • merchant_id: The ID of the merchant	17 18 19	
1	 processing the transaction. (String; non-empty) loan_id: The ID of the loan to pay off for this transaction. (String; non-empty) 	20 21 22	
	 amount: The amount the transaction processed. (Integer; x >= 0) 	23 24 25	
	 repayment_percentage: The percentage of the transaction amount that goes towards repayment. (Integer; 1 <= x <= 100) 	26 27 28	1
	Ex: TRANSACTION_PROCESSED: merchant1,loan1,500,10	29 30 > p	ubl
	System Behavior		
	This version of Capital will represent all monetary amounts as U.S. cents in integers (e.g. amount=1000 => \$10.00 USD).		

A merchant may have multiple outstanding

loans.

5m left	System Behavior	
H		
ALL	This version of Capital will represent all monetary amounts as U.S. cents in integers (e.g. amount=1000 => \$10.00 USD).	
①	A merchant may have multiple outstanding loans.	
	Loan IDs are unique to a given merchant only.	
1	A loan's outstanding balance should never go negative. Ignore the remaining amount in the case of overpayment.	
	After a loan is fully paid off it becomes inactive, and a merchant cannot increase its amount.	
	Truncate repayments when applicable (e.g. if withholding from a transaction is 433.64 cents, truncate to 433 cents.	
	Your system should handle invalid API actions appropriately. (ex: attempting to pay-off a nonexistent loan)	
	Examples	
	Example 0 (manual repayment):	
	CREATE_LOAN: acct_foobar,loan1,5000 PAY_LOAN: acct_foobar,loan1,1000	

Language

	Language	
Examples	1	> imp
	14	
Example 0 (manual repayment):	15	cla
	16	
CREATE_LOAN: acct_foobar,loan1,5000	17	
PAY_LOAN: acct_foobar,loan1,1000	18	
	19	
Expected Output:	20	
	21	
acct_foobar,4000	22	133
	23	
Explanation:	24	
The merchant acct_foobar creates a loan	25	
("loan1") for \$50.00.	26	
2. The merchant pays down \$10.00 of the loan.	27	
Result: The merchant over Stripe \$40.00.	28	3
Result. The merchant owes Stripe \$40.00.		publi
		Juden
Example 1 (transaction repayment):		
CREATE_LOAN: acct_foobar,loan1,5000		
CREATE_LOAN: acct_foobar.loan2 5000		
TRANSACTION_PROCESSED: acct_foobar,loan1,500,10		
TRANSACTION_PROCESSED:		
acct_foobar,loan2,500,1		

acct_foobar,9945

Expected Output:

example 2 (multiple actions):	
CREATE_LOAN: acct_foobar,loan1,1000 CREATE_LOAN: acct_foobar,loan2,2000 CREATE_LOAN: acct_barfoo,loan1,3000 TRANSACTION_PROCESSED: acct_foobar,loan1,100,1 PAY_LOAN: acct_barfoo,loan1,1000 INCREASE_LOAN: acct_foobar,loan2,1000	
Expected Output:	
acct_barfoo,2000 acct_foobar,3999	
Explanation: 1. The merchant acct_foobar creates two loans for \$30.00 in total. 2. The merchant acct_barfoo creates a loan for \$30.00. 3. Merchant acct_foobar processes a transaction, paying off \$0.01 from loan1. 4. Merchant acct_barfoo manually pays back a loan for \$10.00. 5. Merchant acct_foobar increases its second loan by \$10.00.	
Result: acct_barfoo owes \$20.00, acct_foobar owes \$39.99.	

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