

Credit Card Reward Points System - FAQs

Question	Answer
Do I need to create a Front End UI for the file system manager or just simply a Back End API that performs the different functionalities listed?	Front-end is not required, can be optional
Can we code in any programming language?	Yes
What should be the output of this system?	For a given list of monthly transactions for a customer, the system should return the maximum reward points earned for each transaction, as well as the total maximum rewards points earned for the month for that customer.
Is it a web based or desktop application?	Desktop app is fine but the solution is open for your interpretation.
For the solution, will a console app be enough or is a front-end interface required?	Console app is fine. Front end is not required, can be optional. Go for what you know and are comfortable with.
I'm curious as to whether there's any constraints on the programming languages / operating systems used or anything in particular that is being looked for.	You can use any language you see appropriate. The application must take transactions as an input and should return reward points info as an output.
What is a credit card purchase transaction? What is a merchant code?	<p>A credit card purchase transaction occurs when the customer uses the credit card to buy products or goods or services at a merchant's payment terminal or portal.</p> <p>Merchant code is either the name or code assigned to the merchant or the seller which can help distinguish the merchant on the customer's credit card transactions.</p>

I see multiple transactions for the same merchant in the list of transactions. How am I supposed to consider those transactions in reward points calculations?	If the monthly transactions have more than one transaction for the same merchant, the system should combine all the transaction's purchase amount for that merchant and calculate the reward points on the accumulated amount.
What does prioritizing the rules and maximizing the points calculations mean?	If for a transaction, more than one rule can be applied for reward points calculation, the rules which give higher points should be considered over the other rules which lead to lower points.
Can I consider \$1 multiple times?	No, \$1 is only considered once in the calculation.
What will be the input to the program or method?	Method needs merchant code/name and amount for the transactions to be able to calculate the reward points, but it is open for your interpretation if you can think of better/optimized input arguments.
The last rule 7 is asking to include the leftover amount. What do you mean by leftover amount?	You need to include any remaining amount from any of the transactions which wasn't used for calculation using any other rules to be considered for point calculation using rule 7. Refer to Example 3 to understand this better.