

Instructions:

- Please answers all the questions below.
- Try to be as precise as possible.
- The total time to attempt the questions is **60 min**

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1. You need to write as many test cases as possible for a simple software program which computes the eligible discount for a customer. Try to describe all possible scenarios in a tabular format. Do not worry about 'login' kind of test cases, and just focus on how you will validate discount calculation. These are the rules.

If the customer is new, and they are willing to sign up for a new loyalty card, they get a 15% discount on all their purchases on the day. Second if they are an existing customer and hold a loyalty card, they get a 10% discount. Third, if they have a discount coupon, they will get 20% off which cannot be used with the new customer discount but can be used with loyalty card discount. Discount amounts are added, if applicable.

Ans :

Customer Type	Discount Card	Total Discount
New & Willing	Available	15
New & Willing	Not Available	15
New & Unwilling	Available	20
New & Unwilling	Not Available	0
Old & Holds Loyalty Card	Available	30
Old & Holds Loyalty Card	Not Available	10
Old & Doesn't hold Loyalty Card	Available	20
Old & Doesn't hold Loyalty Card	Not Available	0

2. The following appeared as part of an article in the business section of a local newspaper:

"Ronnie's Auto Repair Shop commenced business four months ago at the location formerly occupied by the Jenny's Beauty Parlour. Ronnie's Auto must be doing well at this location, because it intends to open a big shop in an adjacent town. Jenny's, on the other hand, has seen a lower volume of business in its first year at its new location compared to the prior year at its former location. Jenny's definitely erred in shifting to its new location; its former location is a better site."

Discuss how well reasoned you find this argument. In your discussion be sure to analyse the line of reasoning and the use of evidence in the argument. For example, you may need to consider what questionable assumptions underlie the thinking and what alternative explanations or counterexamples might weaken the conclusion. You can also discuss what sort of evidence would strengthen or refute the argument, what changes in the argument would make it more logically sound, and what, if anything, would help you better evaluate its conclusion.

Ans: *Ronnie's Auto must be doing well at this location, because it intends to open a big shop in an adjacent town."*

The article assumes that the Ronnie's Auto Repair Shop is doing good based on the information that they intend to open a big shop in a nearby adjacent town. This maybe true but there can be a counter argument that the intention to open a shop in nearby town is maybe because there isn't enough business at current location and they are hoping to increase their business by setting up a shop in town.

"Jenny's, on the other hand, has seen a lower volume of business in its first year at its new location compared to the prior year at its former location. Jenny's definitely erred in shifting to its new location; its former location is a better site."

The author assumes that the former site of Jenny's is better based on the previous assumption of Ronnie's Auto Shop and the revenue generated in first year of the new shop. The information only states that first year revenue and doesn't talk about later, the first revenue might be lesser because of the new location and trouble retaining customers due to change of location. This might have made Jenny erred at first but the business may pick up when old customers get habituated to the new location and new customers from this location increase.

3. How will you test a wireless mouse? What are the different things you will test and check before you can say that it is a good quality wireless mouse?

Ans:

Criteria to define the quality of wireless mouse :

Latency : There shouldn't be a noticeable lag or a stuttering mouse pointer. It would not only make the experience worst but also impacts some aspects like gaming

Feedback: There should be good feedback for the mouse clicks.

Visual State Feedback : There should be a visual feedback of the state of the mouse like on/connected/not connected etc either by using different colours or any other mechanism.

Power Consumption : Power Consumption of the mouse is an important factor.

Ease of Use: There should be minimal setup process for connecting the mouse.

DPI Button: DPI Customisation button would be an added bonus to suit the needs of different users.

LeadSquared Confidential	Date of Issue: 9-Dec-20	Page 1 of 1
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