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## Zoho Interview Experience | Set 22 (Experienced)

Only user-defined functions. No inbuilt functions at all.

No scanning for inputs, directly assign to vars.

Level 1: (2 hours – pen & paper)

1.Solve the equation X power Y with given values.

Example:

Input: X=2, Y=-2

Output: 0.25

2.Find the distance between two gievn points and round it to the nearest number.

Example:

Input: (2,4) (4,10)

Output: 6

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k largest elements
Reverse a Linked List in groups of given size
Implement a stack with push(), pop() and min() in O(1) time
Add two numbers represented by linked lists
Level Order traversal
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Microsoft
Key Pair
Is Binary Number Multiple of 3

3.Count the numbers of characters in the given string treating '\$' as escape sequence. If '\$' is preceeded by "\", consider it as normal '\$' and not the escape sequence. If "\" occurs, treat it as single "\".

Example:

Input: Hello\$World\$

Output: 11

4.Given a 2D matrix, find the sum of all the elements.

Example:

Input: [1 2 3]

[4 5 6]

[7 8 9]

Output: 45

Level 2:

Finish one question to get the next type. Total 5 questions. (3 hours – machine round)

1.Solve the equation  $(X^{\text{power}Y/Z!}) + (Z/(X!+Z))$  with given values of X, Y, Z. X and Z cannot be negative.

Example:

Input: X=2, Y=3, Z=4

Output: 1

2.Batman, Spiderman and Superman are going to start a business. The total investment is 1000M\$. Anyone can add new investment to their existing investment. They can transfer investments between themselves. The program should be in OOP style and should have a menu for user to do all operations. (Something similar to below example.)

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Remove every k'th node
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Reverse words in a given string
Right View of Binary Tree
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0 - 1 Knapsack Problem
Search in a matrix
Implement Queue using Linked List
Implement Stack using Queues
Remove duplicate element from sorted Linked List
Oracle Practice Problems
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#### Constraints:

- Total investment should always be equal to or lesser than 1000M\$.
- Spiderman's investment should never exceed Batman's.
- Investment cannot go into negative.
- Display investments on each update.

#### Example:

Input: batman = 300, spiderman = 250,  
superman = 100

#### Output:

```
batman - 300
spiderman - 250
superman - 100
add 100 into spiderman
sorry, spiderman cant have more
investment than batman add 200
to batman
batman - 500
spiderman - 250
superman - 100
add 500 to superman
sorry, total investment cant
exceed 1000.
```

I couldn't get the 3rd question as I ran out of time. Need to complete 3 questions to qualify for next round.

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3.2

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Medium

Hard

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