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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
```

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 (XpowerY/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.)

Kadane's Algorithm
Root to leaf path sum
Remove every k'th node
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Search in a Rotated Array
Subset Sum Problem
Sort an array of 0s, 1s and 2s
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
Ola Cabs

```
Constraints:
    a.Total investment should always be
      equal to or lesser than 1000M$.
    b.Spiderman's investment should never
      exceed Batman's.
    c.Investment cannot go into negative.
    d.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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Sum of elements in a matrix

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3.2 Average Difficulty : **3.2/5.0**
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Basic | Easy | Medium | Hard | Expert

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