Zoho Interview | Set 1 (On-Campus)

First Round: (Aptitude written round)

This round consisted of two sections "Reasoning Aptitude" and "Technical Aptitude". Reasoning section was more like puzzles so do concentrate on logical puzzles. Technical Aptitude dealt more with "operator precedence", "pointers", "iterations", "dynamic memory allocations".

Second Round: (Normal Programming round)

1. Print the word with odd letters as

```
P           M
  R       A
    O   R
      G
    O   R
  R       A
P           M
```

2. Given a set of numbers like <10, 36, 54,89,12> we want to find sum of weights based on the following conditions

    1. 5 if a perfect square

    2. 4 if multiple of 4 and divisible by 6

    3. 3 if even number

And sort the numbers based on the weight and print it as follows

<10,its_weight>,<36,its weight><89,its weight>

Should display the numbers based on increasing order.

3. Save the string "WELCOMETOZOHOCORPORATION" in a two dimensional array and search for substring like "too" in the two dimensional string both from left to right and from top to bottom.

```
W       e       L       C       O
M       E       T       O       Z
O       H       O       C       O
R       P       O       R       A
T       I       O       n
```

And print the start and ending index as

Start index : <1,2>

End index: <3, 2>

4. Given a 9×9 sudoku we have to evaluate it for its correctness. We have to check both the sub matrix correctness and the whole sudoku correctness.

5. Given a two dimensional array of string like

```
<"luke", "shaw">
<"wayne", "rooney">
<"rooney", "ronaldo">
<"shaw", "rooney">
```

Where the first string is "child", second string is "Father". And given "ronaldo" we have to find his no of grandchildren Here "ronaldo" has 2 grandchildren. So our output should be 2.

Third Round: (Advanced Programming Round)

Here they asked us to create a "Railway reservation system" and gave us 4 modules. The modules were:

1. Booking
2. Availability checking
3. Cancellation
4. Prepare chart

We were asked to create the modules for representing each data first and to continue with the implementation phase.

Zoho Interview | Set 2 (On-Campus)

Recently Zoho visited for the campus placement. I would like to share my experience to geeksforgeeks because of which I got this offer. Thank you geekforgeeks 🙂

Zoho On Campus Placement Process

1) First Round : Written

40 C output questions. 2 Hours.
30 1Mark and 10 2Mark questions. IT WAS NOT MCQ. The questions were challenging and covered all C concepts.

2) Second Round : Coding

Around 150 students shortlisted for this round. It was a local machine coding round. A staff will be assigned to a group of 5 students. He made note of the time took for solving each question. There was totally 7 questions and I solved 4 questions and did not complete the 5th question.

1) Alternate sorting: Given an array of integers, rearrange the array in such a way that the first element is first maximum and second element is first minimum.

```
Eg.) Input  : {1, 2, 3, 4, 5, 6, 7}
     Output : {7, 1, 6, 2, 5, 3, 4}
```

2) Remove unbalanced parentheses in a given expression.

```
Eg.) Input  : ((abc)((de))
     Output : ((abc)(de))

     Input  : (((ab)
     Output : (ab)
```

3) Form a number system with only 3 and 4. Find the nth number of the number system.

Eg.) The numbers are: 3, 4, 33, 34, 43, 44, 333, 334, 343, 344, 433, 434, 443, 444, 3333, 3334, 3343, 3344, 3433, 3434, 3443, 3444 ....

4) Check whether a given mathematical expression is valid.

```
Eg.) Input  : (a+b)(a*b)
     Output : Valid

     Input  : (ab)(ab+)
     Output : Invalid

     Input  : ((a+b)
     Output : Invalid
```

I don't remember the 5th question.

3) Third Round : Advanced Coding

A matrix game was given with 5 rules. We were asked to implement each of the rules separately.

```
R3 | -   -   - |
R2 | -   -   - |
R1 | -   -   - |
     C1  C2  C3
```

Each of the 9 cells can either be empty or filled with an atom. R3, R2, R1 are the rays that originate from the left. C1, C2, C3 are the rays that originate from the bottom of the box.

Input : Position of the atoms and the rays that gets originated from the outside of the box.

```
    Eg.) 3
         3 1
         2 2
         1 3
         3
         R3 C1 C3

 Output  : Print the box.
```

Rule 1:

A ray that has an atom in its path should print 'H' (Hit) If it does not have any atoms in its path, the ray should pass to the other side.

```
         C1       C3
   R3 |  -    -    -  | R3
   H  |  -    X    -  |
   R1 |  -    -    -  | R1
         C1   H    C3
```

Rule 2 & 3:

A ray that has an atom in its diagonal adjacent position should refract.

```
H  | -    -    - |
H  | X    -    - |
R  | -    X    - |
     R    H    R

Input rays: R1, R2, C3

H  | -    X    - |
R2 | -    -    - | C3
   | -    -    - |
     R2        C3
```

Rule 4:

A ray that has atoms in both of the diagonal adjacent positions should reflect back.

```
Input ray: C2
   | -    -    - |
   | X    -    X |
   | -    -    - |
          R

Input ray: R2
   | -    X    - |
R  | -    -    - |
   | -    X    - |
```

Rule 5:

The deflection of rays should happen in the order of the input rays.

```
Input Rays: R3, R2, C1, C3
   H | -   X   - |
  R2 | -   -   - | C3
     | -   -   - |
       R2      C3
```

The final task was to implement these rules for dynamic matrix size.

```
Input : no of rows, no of columns
  Eg.) 4 4 (row & column)
       2 (No of atoms)
       4 4 (Position of atom)
       2 2 (Position of atom)
       2 (No of rays)
       R4 C2 (Ray number)

  H | -   -   -   X |
    | -   -   -   - |
    | -   X   -   - |
    | -   -   -   - |
          H
```

The final task was very confusing and it had to handle all the cases. There are chances for a ray to end at the starting position if the number of rows and columns are more than 5.

Zoho Interview | Set 3 (Off-Campus)

Hi!! I recently attended ZOHO off-campus drive.

ROUND 1: WRITTEN

APTITUDE(1 hr and 20 minutes-20 questions): Problems on average, probability, time & distance, alligation&mixture,ratio, HCF & LCM and few a puzzles.

TECHNICAL(45 minutes-10 questions): Output for C questions. Practice questions in geekquiz.com and C output questions in geeksforgeeks.org. Questions in pointers, strings, matrix etc.

Nearly 60 students were selected out of 600 candidates. They didn't select the top 60. They had a cutoff and those who cleared the cutoff were called for the next round

ROUND 2: SIMPLE CODING(3 hours)

1. Write a program to give the following output for the given input

```
Eg 1: Input: a1b10
      Output: abbbbbbbbbb
Eg: 2: Input: b3c6d15
         Output: bbbcccccccddddddddddddddd
The number varies from 1 to 99.
```

2. Write a program to sort the elements in odd positions in descending order and elements in ascending order

```
Eg 1: Input: 13,2 4,15,12,10,5
       Output: 13,2,12,10,5,15,4
Eg 2: Input: 1,2,3,4,5,6,7,8,9
       Output: 9,2,7,4,5,6,3,8,1
```

3. Write a program to print the following output for the given input. You can assume the string is of odd length

```
Eg 1: Input: 12345
        Output:
1       5
  2   4
    3
  2 4
1       5
Eg 2: Input: geeksforgeeks
           Output:
g                       s
  e                   k
    e               e
      k           e
        s       g
          f   r
            o
          f   r
        s       g
      k           e
    e               e
  e                   k
g                       s
```

4. Find if a String2 is substring of String1. If it is, return the index of the first occurrence. else return -1.

```
Eg 1:Input:
        String 1: test123string
         String 2: 123
        Output: 4
Eg 2: Input:
        String 1: testing12
        String 2: 1234
        Output: -1
```

5. Given two sorted arrays, merge them such that the elements are not repeated

```
Eg 1: Input:
        Array 1: 2,4,5,6,7,9,10,13
        Array 2: 2,3,4,5,6,7,8,9,11,15
        Output:
        Merged array: 2,3,4,5,6,7,8,9,10,11,13,15
```

6. Using Recursion reverse the string such as

```
Eg 1: Input: one two three
        Output: three two one
Eg 2: Input: I love india
        Output: india love I
```

19 cleared this round and they were called for the next round. The next round took place on the next day

ROUND 3: COMPLEX CODING(3 hours)

1) Design a Call taxi booking application

-There are n number of taxi's. For simplicity, assume 4. But it should work for any number of taxi's.

-The are 6 points(A,B,C,D,E,F)

-All the points are in a straight line, and each point is 15kms away from the adjacent points.

-It takes 60 mins to travel from one point to another

-Each taxi charges Rs.100 minimum for the first 5 kilometers and Rs.10 for the subsequent kilometers.

-For simplicity, time can be entered as absolute time. Eg: 9hrs, 15hrs etc.

-All taxi's are initially stationed at A.

-When a customer books a Taxi, a free taxi at that point is allocated

-If no free taxi is available at that point, a free taxi at the nearest point is allocated.

-If two taxi's are free at the same point, one with lower earning is allocated

-Note that the taxi only charges the customer from the pickup point to the drop point. Not the distance it travels from an adjacent point to pickup the customer.

-If no taxi is free at that time, booking is rejected

Design modules for

```
1)    Call taxi booking
Input 1:
Customer ID: 1
Pickup Point: A
Drop Point: B
Pickup Time: 9

Output 1:
Taxi can be allotted.
Taxi-1 is allotted

Input 2:
Customer ID: 2
Pickup Point: B
Drop Point: D
Pickup Time: 9

Output 1:
Taxi can be allotted.
Taxi-2 is allotted
```

(Note: Since Taxi-1 would have completed its journey when second booking is done, so Taxi-2 from nearest point A which is free is allocated)

```
Input 3:
Customer ID: 3
Pickup Point: B
Drop Point: C
Pickup Time: 12

Output 1:
Taxi can be allotted.
Taxi-1 is allotted
```

2) Display the Taxi details

```
Taxi No:    Total Earnings:
BookingID    CustomerID    From    To    PickupTime    DropTime    Amount

Output:
Taxi-1    Total Earnings: Rs. 400

1    1    A    B    9    10    200
3    3    B    C    12   13    200


Taxi-2 Total Earnings: Rs. 350
2    2    B    D    9    11    350
```

These were just sample inputs. It should work for any input that they give.

Those who finished both the modules within 3 hours and if it worked for all the inputs they give, those candidates were given extra modules to work with.

Only 9 candidates made it to the next round

Zoho Interview | Set 4

Round one:

Note: They have two patterns, for me they asked programming pattern, which is really tough.

Time: 2.15 hrs

40 Questions full of programming, first 10 questions have half mark, next 30 Questions have 1 mark, no Compilation Errors.

1) First 10 questions is to find the output of program which contains full of loops, loops inside loops.

2) Next 30 Questions has five parts

....a) To find the input of the program, output will be given.

....b) To find the error in logic and correct it, to provide the expected output.

....c) To find which two program gives the same result among given four programs.

....d) To find the loop condition for the desired output.

....e) To find the order of function in execution..

Round two:

Level One:

1) To find the odd numbers in between the range.

Input:

2

15

Output:

3,5,7,9,11,13

2) To find the factors of the numbers given in an array and to sort the numbers in descending order according to the factors present in it.

Input:

Given array : 8, 2, 3, 12, 16

Output:

12, 16, 8, 2, 3

3) To output the number in words (0-999)

Input: 234

Output: Two hundred and Thirty Four

4) To find the print the pattern:

Ip: n=5

Op:

1

1 1

2 1

1 2 1 1

1 1 1 2 2 1

5) A man his driving car from home to office with X petrol. There are N number of petrol bunks in the city with only few capacities and each petrol is located in different places For one km one liter will consume. So he fill up petrol in his petrol tank in each petrol bunks. Output the remaining petrol if he has or tell him that he cannot travel if he is out of petrol.

Input:

Petrol in car: 2 Liters

Petrol bunks: A B C

Distance from petrol each petrol bunks: 1, 5, 3

Capacities of each petrol bunk: 6, 4, 2

Output:

Remaining petrol in car is 5 liters

Level two:

1) Print the given pattern:

Input:

N= 3, M=3

Output:

X X X

X 0 X

X X X

Input:

N=4 M=5

Output:

X X X X

X 0 0 X

X 0 0 X

X 0 0 X

X X X X

Input:

N=6 M=7

X X X X X X

X 0 0 0 0 X

X 0 X X 0 X

X 0 X X 0 X

X 0 X X 0 X

X 0 0 0 0 X

X X X X X X

2) To find the number of groups and output the groups:

Explanation: To find the sum of the elements in the groups and that sum should be divisible by input X and the groups should be limited to range with X numbers.

If X is 3, then the group should have only 2 elements and 3 elements from the array whose sum is divisible by 3.

Input:

Array: 3, 9, 7, 4, 6, 8

X: 3

Output:

3, 9

3, 6

9, 6

3, 9, 6

No of groups: 4

Level three:

1) To output the given string for the given input which is an integer.

Input: 1

Output: A

Input: 26

Output: Z

Input : 27

Output: AA

Input: 28:

Output: AB

Input: 1000

Output: ALL

2) Input:

Number of elements in set1: 4

Elements are: 9, 9, 9, 9

Number of elements in set 2: 3

Elements are: 1,1,1

Output:

1, 0, 1, 1, 0

Input:

Number of elements in set1: 11

Elements are: 7,2,3,4,5,3,1,2,7,2,8

Number of elements in set 2: 3

Elements are: 1,2,3

Output: 7,2,3,4,5,3,1,2,8,5,1

Round three:

Real time programming and analysis:

Note: Showing output does matter need to show the output as soon as possible. And also need to solve the constraints very fast, since you know what you have done in your program. After finishing the program always explain the logic behind it and the constraints about the processing and how you solved those constraints to the technical people.

1) To form a structure which has few elements:

```
struct product {
    char productname[20];
    int product_price;
    int product_id;
}
```

Get the product name, price and id and display the product name and price in descending of the price.

2) For the same above structure, now add another structure which is the category. That category will have products in it.

```
Struct category
{
    char category_name[20];
    int cat_id;
}
```

According the category get the product name, product price and id, then display all the products category wise in descending order.

3) For the same structure which as category and product, get the category id from the user in the product structure and save to the category list. Then display them all in category wise.

4) A sheet full of data will be given with inventory stock list, which as different categories and different products as input with category capacity and product availability in the structure. Now we need to add a new category or new product with capacity and availability. Need to check whether the product availability is exceeding the category capacity, if yes the output rack is full or else tell how much free space is available and add the product to list.

5) Constraints in the above in question will be given, need to solve all the constraints, so that the Technical HR gets satisfied.

After these rounds, if they get satisfied, they will call you for Technical HR, followed by General HR. If you solved every single question and you were really fast in problem solving, then HR interview will be easy. Or else HR interview will be very tough especially the Technical HR (The Technical HR round as lots of logical questions)

Zoho Interview | Set 5 (On-Campus Drive)

Round 1:

Questions based on aptitude (10) and c program output (20)

Time 2hr.

Round 2:

5 problem given we have to solve at least 3

Program 1:

Help john to find new friends in social network

Input:

3

Mani 3 ram raj guna

Ram 2 kumar Kishore

Mughil 3 praveen Naveen Ramesh

Output:

Raj guna kumar Kishore praveen Naveen Ramesh

Program 2:

Input:

With the starting and ending time of work given find the minimum no of workers needed

```
Start time          end time
1230                0130
1200                0100
1600                1700
```

Output:

2

Program 3:

Find the union intersection of two list and also find except (remove even elements from list1 and odd elements from list2)

Input

```
List 1: 1,3,4,5,6,8,9
List 2: 1, 5,8,9,2

Union: 1, 3,4,5,6,8,9,2
Intersection: 1,5,8,9
Except: 1, 3, 5,9,8,2
```

Program 4:

```
Rotate the matrix elements
For 3*3 matrix
Input
1       2       3
4       5       6
7       8       9

Output:
4       1       2
7       5       3
8       9       6

For 4*4 matrix
Input:
1       2       3       4
5       6       7       8
9       10      11      12
13      14      15      16

Output:
5       1       2       3
9       10      6       4
13      11      7       8
14      15      16      12
```

Program 5:

Find the largest possible prime number with given no

Input

5

4691

Output:

9461

Round 3:

For one batch of people

Basic programs like pattern printing

1

22

333

4444

And

1

2 4

3 5 7

6 8 10 12

Others had app development

Scenario: text editor

Only 40 characters per line and words should be wrapped if they brake

Also perform insert delete operations

Zoho Interview | Set 6 (On-Campus Drive)

Zoho visited our campus in the month of July.

First round: 15 apti and 15 c output questions. No negative marking and no multiple options. Believe me, this is the only way to avoid people coming into the next rounds based on luck.

Second round: 5 programming questions, they were easy

Q1. Given dates in day,month, year order sort them.

Q2. Given a string of integers find out all the possible words that can made out of it in continuous order. Eg: 11112

ans: AAAAB
AKAB
AAKB
AAAL etc.

Q3: Find whether a given number is magic number or not. It is something which gives same digits even after cubing it.

Q4: something related to rotating an array.
Q5: Given two numbers and an operation either + or – , perform the operation.
Now remove any zeros if present in the two numbers and perform an operation. See if the result obtained is same or not after removing zero's in the original result.

Third round: 5 questions based on maze.

Q1: Given a matrix dimension find the shortest path between two points.

Q2: shortest path between two points and a monster is present. So we have to avoid the monster and take a shortest path or die.

Q3: print the maze step by step.

Q4: same as Q2 but trigger is present so we can take the trigger to shoot the monster anywhere in the maze.

Q5: this is the tricky part. There are many holes in between. we should avoid them and take the shortest path.

Zoho Interview | Set 7 (On-Campus Drive)

Here is my experience in zoho campus drive. It was a two day process

Day 1:

Round 1: Written Test
One and half hour time containing 15 aptitude questions and 15 c programming questions.

In aptitude all topics like time and work, ratio proportion, mixtures, work , boats and streams, number sequences were touched. They were pretty easy.

When comes to C.. the questions were basically on finding the output of the given code.. u need to have strong fundamentals on pointers, strings, preprocessor directives, enums, unions and structures.

Round 2:

A 3 hour programming round. (offline method)
Once u complete a question , it shall be verified for given sample test cases and 4 or 5 pre verified test cases. To get the next question every test case has to be solved. The questions were challenging and explanation was good

the various questions were

1. Cyclic number verification
2. Sorting dates
3. write a code to solve given mathematical expression
4. generation of unique number from any random number
5. given a number u need to print all combination of aphabets for that number

the results were announced around night

Day 2:
Round 3:

pure programming round.

We were asked to design a code (its almost a game without any graphics)
the question shall be divided into modules and each shall be verified for 7 to 8 test cases. when first module is done only then u can get the second and important thing is all the modules are inter related.

our question was a dungeon game.

An adventurer, A monster, A trigger, A treasure, Pits these are the components.
The size and location shall be given in run time. Adventurer must reach treasure fast than monster else he dies (Hint: use absolute of distance)

around 5 to 6 modules were present and 3 hour time.

Round 4:

A hr interview along with 2 technical interviews

the unsolved questions related to apti or program in previous rounds shall be asked along with some puzzles, areas of interest, why zoho ?

once u clear third round there is a 75% probability that u are in.

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Zoho Interview | Set 8 (Off-Campus Drive for Project Trainee)

First Round:

Written, pen paper based. The candidate has to write the output for C programs and basic aptitude questions. Total 30 questions. Test duration was of 3 hours.

Description:

There were altogether 20 questions from C programs and 10 questions from logical aptitude. Questions from C programming basically focus on pointers (single pointer and pointer-to-pointer) manipulation, 75% of questions from pointers and rest from arrays and strings manipulation. The questions from logical aptitude was of moderate level difficulty ranging from probability to speed distance time calculations. Both section same marks weightage. I solved 13 from C and 7 from apti.

Second Round:

They shortlisted approx 40 students for the second round. The mail came after 15 days from first round. It was coding round, programming questions on their laptops in groups of 10 students in each room. Test duration was of 3 hours. The test was on 1 Feb 2016.

Description:

There were 5 questions. The instructor will check the code after solving each question, they may ask for reducing time/ space complexity, be ready for it.

1. Spiral printing.
O/P

```
4444444
4333334
4322234
4321234
4322234
4333334
4444444
```

2. Sort the array alternately i.e first element should be max value, second min value, third second max, third second min. Eg: arr[] = {1,2,3,4,5,6,7} O/P: {7,1,6,2,5,3,4} Note: no extra space and time complexity should be less;

3. Print all the substring of the given string.

4. Print the numbers which are mismatched from two array. Arr1 = {a b c d e f g h i} arr2 ={ a b d e e g g i i}, O/P- cd, de, f, g, h, i.

5. Print all possible combinations from the given string.

The candidate who solved at least four out five are selected for next advance coding round.

Third Round:
Third round was followed immediately after completion of second round. 50% candidates were selected for this round which consists of advance programming question. One full fledge project consist of 7 modules which has to be done on their laptops. Test duration was of 3 hours. Test was on 1 Feb 2016.

Description:
There was one question for each candidate.

1. Develop a railway project which consist of 7 requirements modules. The modules includes booking of railway tickets, cancellation, route option, fare calculations, allotting/dealloting berth, coach position.
Some other questions given to students were online billing and shopping. The instructor may ask to change the requirements run time, you should be ready for it.

Fourth Round:
Fourth round was followed immediately after completion of third round. It was face to face interview round in which technical and HR questions were asked. Interview duration was of 20 mins for each student. It was on same day.
Description:

This round consist of face to face interview, they asked questions from Java collection framework and core java. Questions related to course project was also asked. Finally, all the round were finished at 8 pm.

I am posting these questions here for helping students to crack Zoho interview. Keep an eye on GeeksforGeeks, as I found it very helpful in cracking interviews. All the best Geeks 🙂

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Zoho Interview Experience | Set 9

The interview took place for 3 days, consisting of 5 rounds. The procedure is as follows:

Round I: This round is a basic round as usual for any interview. It is an offline written test consisting of 40 questions i.e. 30questions related to c language and 10 on aptitude. The round was taken by around 600 students. Only 72 got selected for the next round

Round II & III: The next two rounds have a set of questions to be coded in c language.

Round II has 11 questions i.e. 1(a)-1(f), 2, 3(a), 3(b), 3(c), 3(d). I did my best to reach up to 3(b) and qualified for the third round. Out of 72, 22 selected for the next round.

Round III is yet another round of coding. It started at 9:30am and continued till 9:30pm with a break of 1 hour for lunch. The total number of questions are not known but I finished till 5th question when I got a call for my TR round.

Round IV: This round is a typical technical round wherein I'm interviewed about my project details, my coding skills as well as my web designing skills. The questions were on Java, C, HTML, CSS, basic PHP.

Round V: It's a typical HR round where I'm asked to solve some logical puzzles. Some basic HR questions are asked along with few questions on Java.

Really, it was a tough interview as only 7 out 600 were hired.

Thanks to GeeksforGeeks for providing with valuable information. I'm able to answer most of the questions. I recommend every interviewee to go through GeeksforGeeks before attempting any interview. Thank you Geeks!!

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Zoho Interview Experience | Set 10 (Off-Campus Drive)

The Following rounds were held.

Round 1: The first round was held on Jan 10, 2016. The round one contained 30 questions with a duration of 3 hours. There were 20 c apps and 10 logical apps. The c apps consisted of mostly of pointers. The remaining were questions from arrays loops and macro definitions and function calls.

Round 2: The remaining rounds were held on Feb 1, 2016. The round 2 was programming round with 5 questions.

Question 1: Given two sorted arrays output a merged array without duplicates.
Array1: [1, 2, 3, 6, 9]
Array2: [2, 4, 5, 10]
Merged Array: [1, 2, 3, 4, 5, 6, 9, 10]

Question 2: Given a sliding window of size k print the maximum of the numbers under the sliding window.
Example: Consider a sliding window of size k equals 3. Let the array be [3,2,7,6,5,1,2,3,4] the output should print 7 as the first output as first window contains {3,2,7} and second window contains {2,7,6} and so on and the final output is {7,7,7,6,5,3,4}

Question 3: Given a array with n elements print the number of occurrences of that number each number in that array. The order of number doesn't matter. You can reorder the elements.

Example : [2,1,3,2,2,5,8,9,8]

Output:

2-3

1-1

3-1

5-1

8-2

9-1

Question 4: Enter two strings from command line and check whether any substring present in first string that follows the pattern of second sting.. They asked to implement regular expressions for * and backslash without built in functions.

"abcd" "a*cd" answer : yes

"aaaa" "a*" answer : yes

"a*c" "a*c" answer:yes

"adsd" "ad" answer:no

Question 5: They gave a passage and the output should be printing out the number of occurrence of each word and the indices it occurs without using string matching

The passage given was "jana Gana Mana" and so on.. and we have to print number of jana and it's indices.i.e at which position it occurs.

I have completed first and 5th program. The programs were not of equal weight-age. 4th and 5th were given more weight-age. They gave importance with the way of approach. Another guy solved the first 4 programs but he is not selected because of his inefficient code. And I got selected to the next round just because of the appropriate data structure and logic the applied.

Round 3:

This round contained of advance programing but the logics were easy but they gave more importance to the modularity, Object oriented approach and things like that. They asked to create a simple console based application for e commerce. Two user's admin and customer with different functionalities were given. The Customer has to buy items then if discount is applicable for that product he can redeem it and he can also view the Order history. The Admin can add new items and so on.

Round 4:

This round concentrated on technical interview and tested how deep you are goo in the subject. They tested whether I am good at what I have put on my resume. Two staffs interviewed me separately and it lasted for approximately 1 and a half hours.

Round 5:

This round was HR round and just the background details about myself were asked. It lasted for ten minutes.

Zoho Interview Experience | Set 11 (On-Campus)

It was an on campus recruitment.

Round 1:

It had 30 MCQ questions. (20 questions from C aptitude and 10 from general aptitude). It was a written round, which lasted for 2 hours.

Round 2:

It was a programming round, which had 6 questions. The questions were solvable if one has some basic knowledge on fundamentals of programming. It was not conducted in any online judges/tools. The code/output were verified manually. Those who solved 4 questions were selected. Also those solved 3 questions and got the approaches right for any other question were also selected.

Round 3:

It was application development kind of programming round where we were asked to develop any application which supports some list of use cases. We were asked banking application with 12 use cases. In this round, the design which we create and the object oriented concepts which we use were monitored. Preferably we were asked to use an object oriented language to code, but those were not good in C++ or java, were also allowed to use procedural language like C.

Round 4:

It was a face to face technical interview where the interviewer will test your understanding on basics of core subjects of CS. For those who were not from Computer science or Information technology department, they asked only fundamentals of programming and general aptitude, logic questions.

Round 5:

It was HR round. It was concluding round for formality. It was more like a friendly chat for me.

Overall it was a good interview experience. Thanks for geeksforgeeks.

Zoho Interview Experience | Set 12 (On-Campus)

Recently ZOHO visited our campus for recruitment and i would like to share my experience.
Thanks to geeksforgeeks which contributed to most of my preparations..

Round 1 : TIME : 2hrs

I was expecting an aptitude written round .But they gave us 30 flowchart and asked us to go through each flowchart and the questions were based on the flowchart..Questions included finding the o/p of the flowchart , find the missing statement which when added produces the given o/p..If you concentrate and go through the flowchart it should be easy to crack the first round..

Round 2: TIME : 3hrs

They shortlisted 150 candidates from the first round..This was a programming round and consisted of straightforward questions..

1.Given two numbers a and b both < 200 we have to find the square numbers which lie between a and b(inclusive)

```
eg) i/p a = 20;b = 100;
    o/p 25,36,49,64,81,100
```

2.Alternately sort an unsorted array..

```
eg) i/p {5,2,8,7,4,3,9}
     o/p {9,2,8,3,7,4,5}
```

3. Given an array and a threshold value find the o/p

```
eg) i/p {5,8,10,13,6,2};threshold = 3;
     o/p  count = 17
     explanation:
Number   parts                 counts
5                     {3,2}                 2
8                      {3,3,2}               3
10                     {3,3,3,1}            4
13                     {3,3,3,3,1}          5
6                       {3,3}               2
2                        {2}                 1
```

4.a. Given two binary numbers add the two numbers in binary form without converting them to decimal value.

```
eg) a = 1010 b = 11001
       o/p  100011
  b.The two numbers were given in base n
       eg) a = 123  b = 13  n = 4
             o/p  202
```

5.Write a program to print the below pattern

```
for n = 6
        1       7       12      16      19      21
        2       8       13      17      20
3       9       14      18
4       10      15
5       11
6
```

6.Given bigger NxN matrix and a smaller MxM matrix print TRUE if the smaller matrix can be found in the bigger matrix else print FALSE

7.Given two matrices a and b both of size NxN find if matrix a can be transformed to matrix b by rotating it 90deg , 180deg , 270deg if so print TRUE else print FALSE

8 In addition to the above question you have to check if matrix a can be transformed by mirroring vertically or horizontally to matrix b.

I solved 7 questions .. Those who solved more than 5 were selected for the next round.

Round 3 : TIME : 3hrs
About 50 – 60 were shortlisted .. This round was also a programming round..
Questions were based of matrix transformation.Each question was an extension of the previous question in some way..There were 5 questions .. I solved only 2 🙁 But got selected for the next round , I think it was based on my performance on all previous rounds..

Round 4:

We had both HR and technical HR.

In technical HR if they found out that a candidate was not sure on some topic the candidate was asked questions on that topic for the rest of the round even after the candidate said he does not know that concept . In my case it was DBMS 🙁 The round also consisted of 3 puzzles ..they were easy to solve , i solved all of them..

In HR round we had a friendly chat ..They didn't want candidates who were willing to quit the job after a few years and go for higher studies(obviously)..I was asked about my family and my hobbies..

After round 4 we had to wait for almost 5 hrs before the results were announced..There were 2 packages x and x+y.. I was offered the x package mostly because i didn't do round 3 well but they said that if we prove ourselves during the internship they would change the package to x+y so looking forward to that 😉

Overall it was a good experience and i really appreciate ZOHO team for the amount of effort they invested in the interview process each round was both challenging and enjoyable in its own way 🙂
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Zoho Interview Experience | Set 13 (On-Campus)

The selection process is based on 5 rounds which lasted for 2 days. Round 1 and Round 2 held on the first day and the remaining rounds held on the second day.

Round 1

It contained 30 questions (20 C aptitude + 10 general aptitude). All the questions are in fill the blanks format. No MCQs.

Round 2

It contained 5 programming problems :

1. You're given an array. Print the elements of the array which are greater than its previous elements in the array.
   Input : 2, -3, -4, 5, 9, 7, 8   **Output:** 2 5 9You should solve this question in O(n) time.
2. You're given an even number n. If n=4, you have to print the following pattern :44444334

   4334

   4444

   If n=6, then the pattern should be like this :

   666666

655556

654456

654456

655556

666666

3. You're given a number n. If write all the numbers from 1 to n in a paper, we have to find the number of characters written on the paper.For example if n=13, the output should be 18 if n = 101, the output should be 195

4. A number is called as binary-decimal if all the digits in the number should be either '1' or '0'. Any number can be written as a sum of binary-decimals. Our task is to find the minimum number of binary-decimals to represent a number.**Input :** 32**Output :** 10 11 11

Input : 120

Output : 10 110

5. You're given a string as an input. You have to reverse the string by keeping the punctuation and spaces. You have to modify the source string itself with creating an another string.

Input :A man, in the boat says : I see 1-2-3 in the sky

Output :

y kse, ht ni3 21ee slsy : a sta o-b-e ht nin amA

Level 3 : (Advanced programming)

We were asked to develop a mini-project 'Invoice Management' with the following modules :

1. Add a customer

2. Add an invoice

3. Add items to an invoice

4. List all customers

5. List all invoices

6. List all invoices of a customer

7. Display the full details of an invoice

Level 4: (Technical HR)

Questions were mostly based on Database Management. The other areas include Data Structures and Operating Systems. Some of the example questions are : What is referential integrity, Explain outer joins : Left outer join and right outer join, What are holes in OS etc..,

Level 5: (General HR)

Some blah blah questions.

They also give me puzzles while I was solving level 2 programming questions. After all these rounds only 2% of people survived. Hope it helps all. Good luck.

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Zoho Interview Experience | Set 14 (On-Campus)

The selection process consists of 5 rounds and there were almost 350 people came for the process.

Round 1:

This round consists of 15 c questions and 10 aptitude questions and won't be in MCQ format. Questions from c will be bit more difficult and it takes extreme understanding of c concepts to solve it. They will cover arrays, strings, pointers and functions mostly (90 % of questions). **Focus on "output of c programs" in GeeksForGeeks and GeeksQuiz.**

There will be 28 sets and if you go through all sets then it is more than enough to clear the test. When it comes to aptitude questions, they will ask basic questions and basic hands on at quants and logical will get you through. They will give more priority to c questions rather than aptitude questions. So, focus on c part more. I cleared 11 c questions and 3 aptitude questions. They called me after 1 week and believe me there were only 27 people cleared this round.

Round 2:

This round consists of 6 competitive coding questions and you need to solve at least 4 to get you through.

1) Given a number, convert it into corresponding alphabet.

```
Input Output
     1    A
    26    Z
    27    AA
   676    ZZZ
```

2) Given a Roman numeral, find its corresponding decimal value.

http://www.geeksforgeeks.org/converting-roman-numerals-decimal-lying-1-3999/

3) Write a program to print all permutations of a given string. Note here you need to take all combinations as well, say for the input ABC the output should be as follows:

```
Input: ABC
Output:
A
B C
AB AC BA BC CA CB
ABC ACB BCA BAC CBA CAB
```

4) Write a program to rotate an n*n matrix 90,180,270,360 degree.

http://www.geeksforgeeks.org/inplace-rotate-square-matrix-by-90-degrees/ is the solution for rotating a matrix 90 degree. For rotating the matrix 180,270,360 degree, u need to call the same method 2,3,4 times based on the input.

5) http://www.geeksforgeeks.org/reverse-words-in-a-given-string/

6) Write a program to convert a number into a mono-digit number.

Conditions:

a) You are allowed to add and subtract the consecutive digits (starting from left).

b) You are allowed to do only one operation on a digit.

c) You cannot perform any operation on a resultant digit of the previous operation.

d) Your code should also find if a given number cannot be converted to a mono digit number.

```
    Input      Output
    72581        7(2+5)81
                 77(8-1)
                 777
    3962       cannot create a mono digit number
```

8 people cleared this round. They didn't see any optimization in this round. Simply, completing 4 or more questions will get you through to the next round. The interviewers helped us to find some rare corner cases too if we miss anything.

Round 3:

We were asked to design an application program for n*n tic-tac-toe game. Here, you are expected to code with proper standards and in a most optimized way. And, in this round you need to find all the edge cases and corner cases yourself. The interviewers won't help you if you miss anything. So, make sure you covered all the cases before showing output to the interviewers.

http://www.geeksforgeeks.org/implementation-of-tic-tac-toe-game/

Round 4:

First of all, they asked me to explain the logic I have implemented for the previous application programming. Then, they asked me some oops questions, static keyword, difference between array list and linked list. Then they asked me to write a query for inner join, left join and right join. Finally, they asked me 2 puzzles to solve which are as follows:

1)https://www.mathsisfun.com/puzzles/hourglasses-2-solution.htmlz
2) http://www.geekinterview.com/question_details/46800
It was only me who cleared this round and the other one didn't make it.

Round 5:

HR round is just for formality and they asked me some typical HR questions like tell me about yourself, why zoho, will you go for higher studies, your salary expectation and finally they selected me.

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Zoho Interview Experience | Set 15 (Off-Campus Drive)

It was an off-campus drive. More than 1000 people appeared for the drive.

ROUND 1:

This round had 15 aptitude questions which were easy. The hint is you have to think logically and apply basic maths. And also 10 C output questions which were tough.

Only 15% of people survived for programming round.

Those who didn't clear first round went for Content Writing role.

ROUND 2:

This round had 5 easy programming questions.

1) Given an array, find the minimum of all the greater numbers for each element in the array.

```
Sample:
Array : {2, 3, 7, 1, 8, 5, 11}

Output:
{2>3, 3>5, 7>8, 1>2, 8>11, 5>7, 11>}
```

2) Find the largest sum contiguous subarray which should not have negative numbers. We have to print the sum and the corresponding array elements which brought up the sum.

```
Sample:
Array : {2, 7, 5, 1, 3, 2, 9, 7}

Output:
    Sum : 14
    Elements : 3, 2, 9
```

3) Given a string, we have to reverse the string without changing the position of punctuations and spaces.

```
Sample:   house no : 123@ cbe
Output:    ebc32 1o :  nes@ uoh
```

4) Given a 2D grid of characters, you have to search for all the words in a dictionary by moving only along two directions, either right or down. Print the word if it occurs.

```
Sample :
  a   z   o   l
  n   x   h   o
  v   y   i   v
  o   r   s   e
Dictionary = {van, zoho, love, are, is}


Output:
   zoho
   love
   Is
```

5) Given a string, change the order of words in the string (last string should come first).

Should use RECURSION

```
Sample:   one two three
Output :  three two one
```

Should solve atleast 3 problems……Around 30 students cleared this round.

ROUND 3:

This was an application development round. The application was TOLL PAYMENT PROCESSING .
They insisted us to do it in a object oriented language. First they asked the design(what are all the
classes and objects & what data structure do you use).

Application description:

-
  - There are 'n' number of points in a highway out of which some points collect toll.
  - Each toll has its own charging scheme according to the vehicles and whether or not they are a VIP user.
  - If they are VIP user, 20% discount apply.
  - If the vehicle passes 3 toll gates, it has to pay in all the 3 toll gates according to the scheme of respective tolls.

There were 4 modules.

1. Given the details of vehicle type, start and destination......display the total toll paid during the journey and print the amount after applying the discount.

2. Display the details of all the tolls.....like what are all the vehicles(vehicle number) passed that respective toll and the amount each vehicle paid......and the total amount charged in that toll.

3. Display the details of all the vehicles ....like what are all the journeys did it take....the start and destination of the same......tolls it passed during that journey....amount paid in that journey.....and the total amount paid by that vehicle.

4. Assume the highway as a circular path......we have to find the short route and identify the tolls between that route and calculate the amount.

After this round , only 7 students survived for the next round.

ROUND 4:

It was a technical round.

It was more than an hour for me and it was very tough.

Questions were mainly on Java and DBMS.

How jdbc connects with database(steps)….why we need a driver to do that…and also he asked me to design that driver……how Resultset processes the result.

How will you query to get all people details from aadhar database….what are all the challenges?

And some queries on JOINS.

Asked me to solve some first round aptitude questions……and asked me about the previous programming rounds.

ROUND 5: GENERAL HR 1

Asked about my family, my project, my previous interviews i attended, my cutoff in HSC, do you smoke?, what is the salary of your father, what is your strength and weakness characterwise.

ROUND 6: GENERAL HR 2

Asked the same questions asked in HR 1….what went wrong in all the previous interviews….are you interested in higher studies….if not why?…..what is your long term goal.

Any finally 6 of us got selected 🙂

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Zoho Interview Experience | Set 16

Round-1 (aptitude test)

This was unlike other aptitude tests. It contained output based questions. Questions were mainly based on logic and loops.

Round-2(coding)

They gave questions one after the other. Initially it was easy, then ,the difficulty level increased. The first one was to check whether a year is leap year and the last one was to sort numbers based on digits starting from most significant numbers. Eg: input-100 1 11 21 2 3. Output-1 100 11 2 21 3
Each question was a continuation of the previous one, so its good if code is written as function.

Round-3

This was also coding round. They asked us to develop a train reservation system. Here also each question was continuation to the previous one(better to write code as function).The task was to write a program to book a ticket, cancel, add to waitlist.... Some constraints were also given.

Round-4(personal interview)

They Asked about classes, private constructors, garbage collections, sql , puzzle(1,7,26,?)

Round-5

In this round, they asked about kernel, some puzzles , print letter 'X' using '*'.
An array contains values between 0 to n-1. Task is to find the duplicate numbers with time complexity o(n) and space complexity o(1). (Use hashing on the same array- add n to a value if the index has already been visited).

Thank a lot geeksforgeeks .

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Zoho Interview Experience | Set 17

Round 1:

First round is a written test. This is different from the other company written tests which I had faced till now. This round consists of 20 C output questions and 10 aptitude (logical) questions. To clear this round one should have a deep understanding about the concepts of C programming language; mainly pointers, array and string manipulations, loops. We have 28 sets of C output questions available in the given link http://www.geeksforgeeks.org/category/program-output/. The other 10 questions not only consists of aptitude but also logical questions. To attempt the aptitude questions, we have http://www.indiabix.com/aptitude/questions-and-answers/. I think these two links is good enough to clear the first round.

Round 2:

This is a coding round. We are given 4 programming questions which have to be done in a very optimal way. To clear this round, one should attempt at least 3 programs.

1. Given an odd length word which should be printed from the middle of the word.
The output should be in the following pattern.
Example:

```
Input: PROGRAM
Output:
                G
             GR
           GRA
         GRAM
       GRAMP
     GRAMPR
   GRAMPRO
```

2. It is a program to implement Least Recently Used (LRU) concept. Given a key, if it is already existed then it should be marked as recently used otherwise a value should be stored which is given as input and marked as recently used. The capacity is to store only 10 key, value pairs. If the table is full and given a new key; the key, value pair which is not recently used should be deleted which gives feasibility to store the new key, value pair.

3. Given a few pairs of names in the order child, father. The input is a person name and level number. The output should be the number of children in that particular level for the person given.
Example:
Input:
[
{Ram, Syam},
{Akil, Syam},
{Nikil, Ram},

{Subhash, Ram},

{Karthik, Akil}

];

Syam 2

Output: 3 (Syam has Ram and Akil in level 1 and in level 2 he have Nikil, Subhash, Karthik. So the answer is 3).

4. Given an array of positive integers. The output should be the number of occurrences of each number.
Example:
Input: {2, 3, 2, 6, 1, 6, 2}
Output:
1 – 1
2 – 3
3 – 1
6 – 2

Round 3:
This is an advanced programming round. The task is to develop an Invoice Management. The main focus in this round is in designing part. We should mainly focus on the data base part. How we are going to design the tables to store data and how we are going manage the data plays an important role. It is better to refresh DBMS concepts before attending the ZOHO placements. Techtud videos on DBMS in youtube helped me a lot to understand basic concepts of DBMS. Particularly, in this

round think in the aspect of ER models (Tables, attributes, primary and foreign key etc).

After designing part they gave us two queries. Here, the coding part should be done in a very optimal way. Based on the query, from the data we stored, the result should be printed. I did in C language but better to implement in any OOPS language.

Round 4:

This round is a face to face interview. I had been interviewed nearly one and half an hour. Nearly 45 minutes, they asked about my project which is done in Java using servlets. They asked to design all the database tables which I have used in my project. They asked about the extensions of my project and asked how I'm going to implement. They also raised a problem in my project and asked which concept I will use to solve the problem. Another 45 minutes they asked about some other TR questions, my family background and some HR questions.

Round 5:

This is just a formality round. They asked about the relocation, why you prefer ZOHO and some other basic HR questions. At last, only 4% of the people survived.

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Zoho Interview Experience | Set 18 (On-Campus)

Number of days – 2

Total number of students applied – 250

Round 1:

15 C Output and 10 Normal Aptitude.
10 C Output– 1 Marks
5 C Output– 2 Marks
10 Normal Aptitude — 1 Mark

28 sets in geeks for geeks is more than enough for getting through this in addition to basic general aptitude competence. MAKE SURE YOU READ ALL THE 28 SET. Thats all i did and I found the test very easy. Question were mostly pointers, arrays, loops and strings. No questions had any sort of compile errors and most likely answers will be a single number or a string or a character.

General aptitude consisted of age problems, speed, ratios etc. Normal level of competence would be enough to get through this. POINT TO NOTE :– The 2 mark C questions attend them first and double check them they will save your life and dont even skip one set from geeks for geeks they are very very good, cant stress this enough.

_____

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About 56 students cleared round 1 and round 2 started soon the

same day.

ROUND 2:

6 Programming question

1. Adding 2 numbers

GIven 2 huge numbers as seperate digits, store them in array
and process them and calculate the sum of 2 numbers and store
the result in an array and print the sum.

Input:
Number of digits:12
9 2 8 1 3 5 6 7 3 1 1 6
Number of digits:9
7 8 4 6 2 1 9 9 7
Output :
9 2 8 9 2 0 2 9 5 1 1 3

2.Given sorted array check if two numbers sum in it is a given

value

Input

Array = {1 3 4 8 10 } N = 7

output

true

3. Compiuting value of sin (x)

Input x = 30 n = 10

output = 0.5

Hint : The equation $\sin(x) = x - x^3 / 3! + x^5 / 5! - ....$

4. Write function to find multipication of 2 numbers using + operator You must use minimu possible iterations.

Input: 3 , 4
Output 12

5. Given array find maximum sum of contiguous sub array

{-2 -3 4 -1 -2 1 5 -3}

output 7 elements [4 -1 -2 1 5]

6. Given unsorted array find all combination of the element for a given sum. Order should be maintained.

Input :
8 3 4 7 9 N=7

Output

{3 4 } {7}

PREPARATION :

Solve all the previous questions asked

Solve extras on arrays

Solve extras on matrix

solve extras on strings

Learn all Datastructures available in What ever language you

are using.

For me it is java so COLLECTIONS… Know every inch of it too.

CPP guys … basic DS and functions in algorithm header.

I solved all the questions, you would clear the round if you

solve minimum of 5 questions if you are from computer science

branch. For other branches they are a bit more lenient. 3 or 4

is enough.

_____

_

22 Students cleared round 2 and they were called for the next

round the next day

Day2:

Round 3: 3Hr

Advanced programming.

You are given coordinates as input

(0 0) (0 1) (0 2) (0 3) (1 5) (1 4) (3 5)

1. Check if the given points lie in the same line

2. Glven a point find the points on the largest line [in terms of the points it contain] passing through that point

Input : 0 1
Output : (0 0) (0 1) (0 2) (0 3)

3. Given 2 points find the points in between them.
Input (0 0) (0 3)
Output : (0 1) (0 2)

4. Find the number of points in the line with the largest number of points in it.

5. Given a point print all the lines passing through it [ie for each line print the points in it]

PREPARATION :This round usually consist on making modules and oop stuffs. This was out of the blue. Previous problems, I just did Railway Reservation partially for this round.
If you have done some projects and is good with oop you will get through no need to practice

I solved all the problems. The invigilator will be around

checking your code all the time, SO NO SLOPPY CODING GUYS!! They need good code. Take a paper and figure out your aproch before solving each of them. And also check if you could use one problem to solve the other. Here The function written for Q2 can be used for Q5 with some modification if you're out of time.

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12 Students cleared round 3.

I was one of the top 3 students and was directly taken to HR

Round.

Round 4 Tech 1 : I was told they were asked basic questions on arrays, strings and matrix. If they find you are good enough they will send you to HR else there will be another tech round for you with another person. This is the end of the line if you dont impress them here too.

Round 5 HR : Basic questions.
Note : Higher studies – say no
Why ZOHO
projects
If you get another company will you come to ZOHO
We are gonna have oracle next week so some questions like will you be attending oracle

.

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Finally 8 students got through 6 of them got higher package and 2 of them got lower package. Thank you geeksforgeeks, you guys are the only source that i used to prepare for this test and no way would've cleared without the help from people who posted their experience. My results were announced 3 hours ago and here I am posting the questions. So whoever is prepping for ZOHO, know that previous questions are of absolute importance. Zoho is easy to crack with proper preparation for a 15 days or so. Persistence and consistence is the key here and a bit of luck.

Good Luck Guys!

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Zoho Interview Experience | Set 19 (On-Campus)

Zoho is one of the esteemed company with a unique style of intake i.e it takes a candidate only on the capability and strength on C language and coding. Its tagline for intake is also that the candidate should be passionate about coding(programming).

Everyone from our college could attend, even with backlogs also. The only thing is he should be good at programming.

They said us to assemble at 9:00 AM

ROUND-1:
I expected to write the outputs of the program but the scene was different. They gave every question on loops and control flows.
They gave us 1hr 30 min to solve 45 ques.
22 ques were on loops and we should write the output from the program, each ques is the same routine. Next 23 ques were the flow charts and we need to write the output.
We are given rough sheets and they are taken back.
they gave us the results in the afternoon.

ROUND-2:
I was not selected for round 2, but of my friend shared his experience.
This round was coding round we are given systems and a C IDE. the invigilators give us the ques

and we need to solve them one by one, after solving one we are given the next ques. each ques is interrelated somehow. after solving around 6 to 7 ques we are announced qualified fr the next round.

ROUND-3:

This round is an application development one of my friend was asked to develop an program such that accepts all the cases of the railway reservation. We need to handle booking, cancellation, user priority and no of seats left etc. almost we have 2 hrs or more to deal with that. my friend was unable to deal with it. all our program will be visioned by the members of Zoho.

ROUND-4:

They ask us several ques and test our programming knowledge.

ROUND-5:

After our 4th round they asked us to come to Chennai. there they take one more filtration and give us the call letter with a package of 6.5lakhs.

To ace this Zoho u need to be perfect with C language. At least 70% proficient. u need to leave everything at least for 6 months and practice coding. luck don't support u until the last round.
My classmate aced zoho, who was passionate about programming since 1st year of B Tech.
She even got 100% in nptel exam conducted by iit on DS and coding, that is all. Overall its a great company with good growth. Don't give a try, put some effort and then try.

Zoho Interview Experience | Set 20

First, I would like to thank geekforgeeks for providing me with the previous interview questions.

I applied through employee referral. **First round** was held at a college in Thirunelveli on 8th January, 2017. It consisted of 20 C aptitude questions and 10 general aptitude questions. These questions concentrated on control flows. Good knowledge in loops and recursions is enough to clear this round. Since the questions were in C, We need to know the basics of pointers as well. Around 5000 people attended this round. And only around 50 people were selected for further rounds.

Second and third round, We were asked to solve simple algorithm questions. People who didn't do well were sent out on the spot. Questions were from Arrays and String manipulation. Around 10 people cleared this round.

Fourth round was technical HR. Since I am from Automobile Stream, He didn't ask many questions in coding. He asked a few puzzles. He was nice and helped me solve the puzzles.

Then I was sent to general HR. She asked why Zoho? Why didn't I try to get a job in the past 8 months after the completion of my degree? And salary Expectations. After this round They told me that they will contact me in two days.

I was informed on 14th January that I got the job.

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Zoho Interview Experience | Set 21 (On-Campus)

Question 1 : Write a program to determine whether a given number can be expressed as sum of two prime numbers or not.

For example 34 can be expressed as sum of two prime numbers but 23 cannot be.

Question 2 : Take a 2 or 3 digit input number, reverse it and add it to the original number until the obtained number is a palindrome or 5 iterations are completed.

Input : n = 32
Output : 55
23 + 32 = 55 which is a palindrome.

Input : 39
Output : 363

Question 3 : Given a string, reverse only vowels in it; leaving rest of the string as it is.

Input : abcdef
Output : ebcdaf

Question 4 : Write a program to check if the given words are present in matrix given below. The words can be left to right, top to bottom and the diagonals (in top to bottom direction)

```
P  W  K  C  T
B  O  F  A  L
O  O  E  R  M
X  L  A  T  E
A  C  O  T  N
```

Eg :   POET : (0,0), (1,1), (2,2), (3,3)
       FUN : Not Found

Similarly search the below given words
POET, CART, LATE, TEAL, MEN, BOX, ROAM, BOAT, FOX, WOOL, COT

Question 5 : Write a program to form lines using given set of words. The line formation should follow below rules.

i) Total characters in a single line excluding the space between the words and the favorite character should not exceed the given number.

ii) Favorite character is case insensitive.

iii) Words should not be broken up. Complete words alone should be used in a single line. A word should be used in one line only.

```
Input : Max char per line = 10
        Favorite character = 'o'
        Words : Zoho, Eating, Watching, Pogo
                Loving, Mango
Output : Watching Zoho
         Eating Mango
         Loving Pogo.
```

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