COIMBATORE INSTITUTE OF TECHNOLOGY

(GOVERNMENT AIDED AUTONOMOUS INSTITUTION)

CIVIL AERODROME POST, COIMBATORE-641014.

PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

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INTERN OFFERED ?	: NO
BOND	: NIL
HAVE YOU PLACED ?	: YES

*(Please comment this section **in detail** to guide your juniors in bright way)*

COMMENTS ON SELECTION PROCESS :

ROUND 1 :

- It was an online test on programming hosted on Hackerrank.
- It had two questions and a total time of 70 mins.
- The questions were based on strings and arrays

Have you cleared the round : YES
Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Problem solving / Strings	Consider a 2D matrix in which you have to move from one point to another point. There are four possible moves (Up, Down, Right, Left). The path traced will be given in the form of a string. Eg: "RUDLURLLU". The aim was to remove the redundant moves through the path. For example, if there a two followings moves of 'UD' or 'RL' it will result in the same position. So return the maximum number of moves that can be eliminated. Eg: Input: 'URUDRLR' Output: 4 ('URR')	Maintain a stack which keeps track of the moves. In-case of any contradict moves like 'UD' or 'RL', both are popped. The difference between the length of the given string and the length stack will be the answer.
Problem solving / Arrays	Given an array of weights and maximum weight that can be lifted by a person, find the maximum weight combination that can be lifted by that person.	Find the combination of the array of length from 1 to the length of the array. Calculate the sum in each case, and update the maximum values.

ROUND 2 :

- It was a technical Interview hosted on Hackerrank Codepair.
- Three programming questions were asked. It lasted for 1 hour 30 mins.
- The questions were based on 1D array

Have you cleared the round : YES
Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Problem solving / Array	Given total number of steps 'n', and only 1 or 2 steps can be taken at a time. Find all the distinct ways climb up the n steps. Eg: Input: 4 Output: 5 ([1,1,1,1],[2,2],[1,1,2],[2,1,1],[1,2,1])	Find the permutations of [1,2] of length upto the n and count the permutations in which the sum will add up to n. Alternate approach:

		Find the fibonacci series starting from 1,2 and the n^{th} number in the series will be the answer.
Problem solving / Array	Given a array of 'n' integers, which represents the chocolate packets. Each value in the array represents the number of chocolates in the packet. Given 'm' number of students and the chocolate packets should be distributed to the students. Conditions: 1. Each student should get exactly one packet 2. The difference between the number of chocolate in the packet with maximum chocolate and the packet with minimum chocolate should be minimum. Find the minimum difference. Eg: Input: arr=[1,7,2,14,5,30], m=3 Output: [1,2,5]	First sort the given array in the ascending order. Slice the array in size of m with a sliding window. Find the difference between the first and last element in each sliding window. Update the minimum difference in a variable.
Problem solving / Array	Given an array of integers and size of the sliding window 'm', find the number of unique numbers in each sliding window through the array.	Slice the array based on the size of the sliding window. Iterate throughout the array, and the find number of the distinct number with the help of dictionary.

ROUND 3 :

- It was a technical interview hosted on Hackerrank Codepair.
- It had two programming question and it lasted for 2 hours 15 mins
- The questions were based on data structures.

Have you cleared the round : YES
Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Problem solving / Array	Given an array of integers of size 'n' in the range of 1 to 45, rearrange the array in such a way that any adjacent numbers are not the same. Atleast one solution exists. Many solutions may also exists, print any one. Eg: Input: [1,1,1,2,2,2] Output: [1,2,1,2,1,2]	Iterate through the array and find the frequency of each unique number in the array. Store these values in the two different array – Numbers, Frequency. Sort the Frequency array in the descending order. Also so the Numbers array in the same order such the indexes are matched. Each pairs of

		values from the Numbers array and print them alternatively and reduce the Frequency until it goes to zero. After that, pick the next element from the Number array. Used heap sort for sorting.
Data Structures	Given a binary tree, print all the nodes in diagonal order. Eg: Input: 1 2 3 4 5 7 10 20 14 Output: [1,3,7] , [2,5,14] , [4,20] , [10]	Identify the horizontal and vertical level of each node in the tree i.e. The horizontal level of root is 1 and goes upto n & the vertical level of root is 0 and it decreases to the left by 1 and it increase to the right by 1. The diagonal node of each node will be obtained by adding one to both horizontal and vertical levels.

ROUND 4:

- It was a General HR round. It lasted for 45 mins.
- The questions were based on the following topics:
    1. The thing I love the most
    2. The reason of taking Electronics stream
    3. The reason of switching from Electronics to IT
    4. The reason for the passion on programming
    5. My hobbies
    6. My family background
    7. My personal projects in Github
- It was quite a relaxed round. They mainly tested the communication skill and the situation handling technique.
- I was asked to show the simulation of the game I created and the working demo of my mobile application

Have you cleared the round : YES

AREAS TO PREPARE:

- First of all, be strong and thorough in whatever technical knowledge you have
- There weren't any aptitude or logical questions
- Good problem solving knowledge and very much practice in solving programming questions
- Should be able to come up with a solution/approach for any given problem
- Knowledge in Data Structures

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

Websites: (For learining)

- Geeksforgeeks
- Programiz
- JavaTpoint
- W3Schools
- Tutorialspoint
- Guru99
- Tutorials Republic
- Techie Delight

Youtube Channels:

- Jenny's lectures
- Tushar Roy

Websites: (For Practice):

- Hackerrank
- Geeksforgeeks
- Leetcode

OVERALL EXPERIENCE:

It was very challenging. The difficulty levels of the questions were medium. It was fortunate that I was able to solve them spontaneously. The interview day was very hectic. I was totally occupied for the whole day. But I managed to perform well.

GENERAL TIPS:

- Clear your mind and think for few minutes. You will get some idea.
- Any solution will be achieved by trial and error method.
- If you clear an interview level, the next level may be scheduled immediately. So be prepared for anything.
- Complete the entire learning process before the process day. Don't learn anything in the last moment.
- Look Confident and smile always

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PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

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INTERN OFFERED ?	: NO
BOND	:NO
HAVE YOU PLACED ?	:YES

*(Please comment this section **in detail** to guide your juniors in bright way)*

COMMENTS ON SELECTION PROCESS :

ROUND 1 : CODING ROUND

Have you cleared the round : YES
Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
CODING	Given an array and k ,find whether the k subsets can be formed with distinct elements. Input:arr=[1,2,3,4] K=2 Explanation:[1,2],[3,4] Output:"YES"	Find all the combinations of a given array and add to the list of size K if the subset already present return No else return YES.
CODING	Given an array of weights and maximum capacity . find the maximum weight she can lift. Input:arr[2,3,4,5,6,7], capacity=8 Output:7	Find the combinations of the weights and adding the weights of combinations should be less than or equal to maximum capacity return the maximum

ROUND 2 :TECHNICAL HR
Have you cleared the round : YES
Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
CODING	Given N you can climb up using 1 steps or 2 steps.Find the number of distinct ways to reach the N. INPUT: 5 OUTPUT: 8	Dynamic programming.store the ways of 1 and 2 and keep adding like dp[n]=dp[n-1]+dp[n-2]
CODING	Given an array of chocolate packets and Members .You should give one pack of chocolates to each of them.The maximum chocolate and minimum chocolate given to them should be the minimum difference. INPUT:[14,13,11,2,3,10],M=3 OUTPUT:2	Sort the array and find difference between first index and last index of size m
CODING	Given an array and K .You have to divide the array into subsets of size K in contiguous order and find the count of distinct elements. INPUT:[1,2,1,3,4,5,2] OUTPUT:[3,4,4,4]	Find the difference between the two same elements.If it is less than K then its count gets reduced.

ROUND 3 :TECHNICAL HR
Have you cleared the round : YES
Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
CODING	Given an array and no two elements should be adjacent INPUT:[1,1,1,2,2,2] OUTPUT:[1,2,1,2,1,2]	Sort the array and use hashmap to get the count of elements,and add to list till count is greater than 0.
CODING	Given a binary tree print the diagonal elements of the tree INPUT:[1,3,8,9,11,10,14] OUTPUT:[8,10,14] [3,9,11] [1]	
CODING	Given a sorted 2D array and K.Find the maximum value By given conditions I) i<j,|xi-xj|<=k II) If it satisfies the condition then apply into the given equation yi+yj+|xi-xj|.	Brute force approach.

ROUND 4 :MANAGERIAL HR

Tell about yourself and family.
Questions fully on my resume ,projects and interest.

Have you cleared the round : YES
Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

AREAS TO PREPARE :
DATA STRUCTURES
CODING

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

Leetcode
GeeksforGeeks

OVERALL EXPERIENCE :
It was a very nice experience.Interviewers were very friendly.They wont urgue you to finish .If you cant able to understand the questions they will explain you clearly.If you cant able to proceed they will give you hint.

GENERAL TIPS :
Practice regularly
First solve by using brute force approach and optimise further.
Don’t panic and Keep your mind free while solving coding problems.
Read the questices twice or thrice until you clearly understand the question.

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PLACEMENT YEAR 2020-2021

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COMPANY TYPE	:	CORE
JOB DESIGNATION	:	Software Engineer
SALARY (CTC)	:	Rs. 8,91,984 per annum
INTERN OFFERED ?	:	NO
BOND	:	
HAVE YOU PLACED ?	:	NO

*(Please comment this section **in detail** to guide your juniors in bright way)*

COMMENTS ON SELECTION PROCESS :

ROUND 1 :

Coding round
Be strong in any one coding language. Have regular practice in problem solving areas. Hackkerank would be a great platform to practice. And geeksforgeeks can used for reference.

Have you cleared the round : YES
Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

ROUND 2 :

Personal Interview
Here be strong in basics. Make sure you know complete knowledge about what you have in your resume. There will also be a coding round. Be bold and confident while u answer the question.

Have you cleared the round : YES / NO
Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

ROUND 3 :

Have you cleared the round : YES / NO
Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

ROUND 4 :

Have you cleared the round : YES / NO
Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

AREAS TO PREPARE :

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

OVERALL EXPERIENCE :

GENERAL TIPS :

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PLACEMENT YEAR 2020-2021

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SALARY (CTC)	:	8,91,984 Per Annum
INTERN OFFERED ?	:	NO
BOND	:	NO
HAVE YOU PLACED ?	:	NO

*(Please comment this section **in detail** to guide your juniors in bright way)*

COMMENTS ON SELECTION PROCESS :

ROUND 1 :

It is a coding round, took place in Hacker-rank platform.

Have you cleared the round: YES
Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Simple array concept in DS	Threshold value = 10 Time = 3 The club of 3(Time) for the given array's average is greater than Threshold value(10) means give an alert message. So how many messages are needed to be sent. Given array = [0,10,11,10,7] Output = 1	Using loop of 0 to length of array-Time. Find the average and incremented the count if it is greater than threshold value and returned the count.
Greedy algorithm from DS	Find maximum sum less than or equal to k. Array = [1,3,5] k = 7 Output = 6	Used default library **combinations** from Python.

ROUND 2 :

This round is a face to face interview. Here also coding questions was provided to solve in hacker-rank code pair platform.

Have you cleared the round: NO
Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Dynamic Programming	You have to walk on stairs to reach to top. At a time, you may take 1 or 2 steps. In this way how many possible combinations can be generated for n steps. For 3 stairs: (1,1,1), (1,2), (2,1)	Tried to generate combinations using python itertools. But the original way is to use dynamic programming
Simple array in DS	Chocolate packets = [7,4,5,2,3,6] children = 3 You have to distribute chocolate packets to n children, so that the difference between the max and min count is minimum.	Sorted the given array and find the differences of index i and i+children_count and returned the minimum of that.
Strings	Given a large string s = "dogcatballkitefoodcatdogkite" and array words = ["dog", "cat"]. I have to return the starting index of s where the array words should be joined without intervening letters in any order lile dogcat or catdog. Here the output is [0,18]	The well developed approach is having the all starting letters from the array words, and anyone is got have to look for other letters of same word then do the same for all words.

ROUND 3 :

Have you cleared the round : YES / NO
Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

ROUND 4 :

Have you cleared the round : YES / NO
Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

AREAS TO PREPARE :

All concepts of Data Structures.

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

Hacker-rank

OVERALL EXPERIENCE :

The panel is very friendly, and help us by giving hints. One of the stress free interviews.

GENERAL TIPS:

Don’t get afraid while seeing the questions or problem statements. Read it clearly and understand well before approaching to solve it.

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PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

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INTERN OFFERED ?	:NO
BOND	:NO
HAVE YOU PLACED ?	: NO

*(Please comment this section **in detail** to guide your juniors in bright way)*

COMMENTS ON SELECTION PROCESS :

ROUND 1 :This round is coding based and they provided 1hr timing to solve 2 problem statement in Hackerrank platform.

Have you cleared the round : YES
Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
programming	Given an array of integer, grouping value and threshold value. Objective is to count the no of average of group of integer above threshold value	Sliding window technique is used to find the average of all group of integers
programming	Standard Knap sack problem	Dynamic programming

ROUND 2 :
This is technical round and they mostly asked in resume and Area of interest

Have you cleared the round : NO
Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
programming	Count the no of island in 2d grid	Dynamic programming

ROUND 3 :

Have you cleared the round : YES / NO
Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

ROUND 4 :

Have you cleared the round : YES / NO
Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

AREAS TO PREPARE :

Data Structure and Algorithm
SQL

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

Geeks for geeks
W3school.com
Data structure and algorithm by B.Rajanmanikam

OVERALL EXPERIENCE : Good but as I am a electronic student I feel hard to crack questions

GENERAL TIPS : If you are an Electronic student but focusing on IT side then try hard to learn Data structure fully and be confident on that.

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SALARY (CTC)	: Rs. 8,91,984 per annum
INTERN OFFERED ?	: NO
BOND	: NO
HAVE YOU PLACED ?	: NO

*(Please comment this section **in detail** to guide your juniors in bright way)*

COMMENTS ON SELECTION PROCESS :

ROUND 1 :

It was on Hackerrank. We were given 2 coding questions which were random for all. Both questions are in individual section(30min +40 min) and we can't switch between sections. One question is easy and the other is medium. Both can be easily solved. It requires little bit coding practice and if you are good at basic coding you can select for the next round easily.

Have you cleared the round : YES

Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
	You are given string of instructions. Each instruction represent one step movement. 'R' - one step rightward, 'L' - one step leftward, 'U' - one step upward, 'D' -one step downward. To find number of instructions we can delete so to minimize the instructions to reach destination Ex: Input: RLURRD Output: 4 (RLURRD equivalent to RR we can delete 4 instructiion)	Counted the number of R, L, U,D. Then found diffrence of R and L and found difference of U and D. Then doubled their sum which gives the result.
String	Print array of size 26 each value represent the number of times that characters get repeated in a encrypted string. Encryption method: a as 1, b as ,... and 10# for j,.....26# for z. Value described in parenthesis represent no of times that string repeated(aaa as 1(3)). Ex: Input: 1(3)10#26#(2) Output: 30000000010000000000000002	Created an array of size 26 having value 0. Traversed string backward if it is found closed parenthesis,traversed till open paranthesis and taken inbetween value as count else count as 1 then decremented pointer by one. if it is found '#', taken before two characters as address and decremented pointer by 2 else before character as address and decremented pointer by 1. At that address added that count to previous value.

ROUND 2 :

It was on Hackerrank codepair. You had an Interviewer. The questions were totally based on Data structures and Algorithm and problem solving. I was asked to give approach to the 2 question that were posted on codepair. You have give your solution by your voice and have to convince the interviewer that you were on right path to solve.

Have you cleared the round : NO

Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Greedy	You have to walk up the staircase of n steps. You can make 1 step or 2 step at a time. Find the number of ways to reach top. Ex. Input: 3 Output: 3 (111, 21, 12)	fibonacci approach. if n=1 then 1 way possible. if n=2 then 2 ways possible. if n>3 then ways= no of ways (n-1)+no of ways(n-2)
Greedy	Your were given an array in which each element represent a chocolate packet and value represent no of chocolates in that packet. There were m children. You have to distribute chocolate packet such that satisfy following condition a) Each child get only one packet. b) The difference of the maximum number of chocolate in a packet and the minimum number of chocolate in the packet is minimum. Ex: Input: [4,6,9,3,1,7] Output: 2 (To find minimum value that was not specified)	Sorted that array. Then found minimum value of arr[m+i]-arr[i] for each i where i+m is less than len of arr.

ROUND 3 :

Have you cleared the round : NO

Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

ROUND 4 :

Have you cleared the round : YES / NO

Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

AREAS TO PREPARE : Data Structures and Algorithms, Area of Interest, Project.

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :
Hackerrank, Hackerearth, leetcode.

OVERALL EXPERIENCE : Good problem solving skill and good communication to make interviewer understand your solution will help you to get placed.

GENERAL TIPS : Have strong base on Data structures and algorithms. Practice lot of problem solving questions. First round would be easy and the difficulty increases with round. Strong Data Structures and algorithm concepts, strong problem solving skill make you get placed.