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Technical Round

Intro about the company

- Tata Consultancy Services Limited (TCS) is an Indian multinational information technology (IT) service, consulting and business solutions company Headquartered in Mumbai, Maharashtra.
- It is a subsidiary of the Tata Group and operates in 46 countries.
- TCS is now placed among the ‘Big 4’ most valuable IT services brands worldwide.
- TCS is one of the largest private sector employers in India, and the fourth-largest employer among listed Indian companies

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(after Indian Railways, Indian Army and India Post).

TCS Technical round

- There are two components of technical questions. MCQ's and Programming.
- MCQ (or) Fill in the blanks – 20 Minutes

– 10 Questions

- Coding round – 20 Minutes

– One C program

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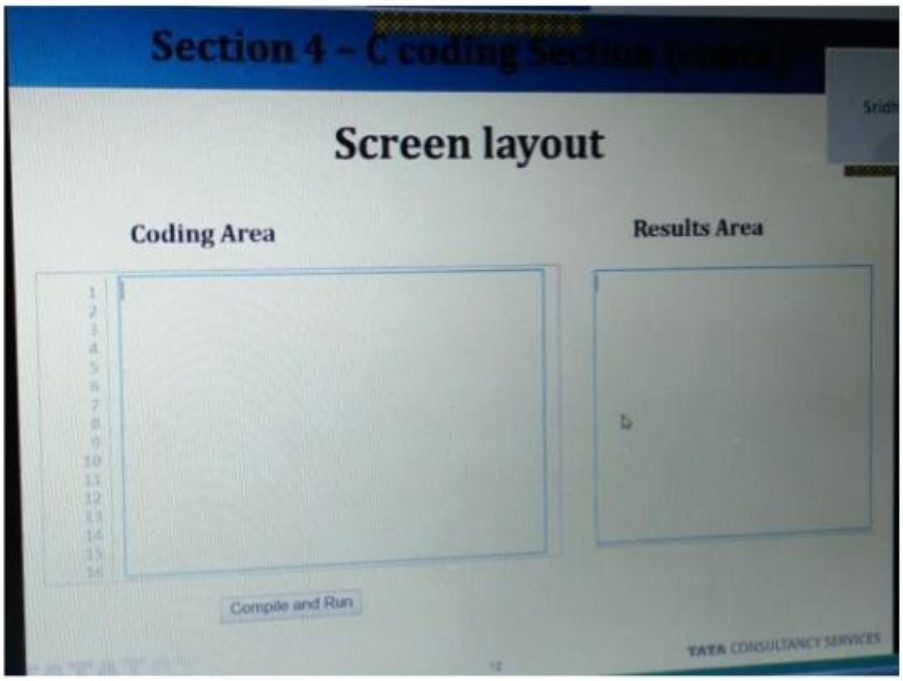

Coding platform

Coding platform - Instructions

- There was **only one question**.
- It has **10 attempts(We can compile only 10 times)**.
- We must **start our code from the scratch**.

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- The coding platform is divided into two, one for writing the code and other for output. We **should write the whole program**.
- We **can't use any input functions like scanf(), getch(), getchar()**.
- The input to be provided should be read as **command line arguments.**

Coding platform - Instructions

- We must **only print exact output**.
- Output must not be re-framed by extra words.
- If there is any error, the error will be shown in the output dialog box.
- The errors are clearly mentioned.
- If there are no errors, a message like "compiled successfully"

will be printed.

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- Along with that they will mention **four test cases** are '**passed**' or '**failed**'. They are indicated like private and public test cases. They have not mentioned what is the test case, which is difficult to understand.
- There is **no time limit**. But, when all the 10 attempts are over, a message like "attempts exhausted" will be shown.
- To compile and run there is a button provided. To run the code, just click on that.

1) How many times the below loop will be executed?

```
#include<stdio.h> int main() {

int x, y; for(x=5;x>=1;x--) {

for(y=1;y<=x;y++) printf("%d\n",y);

} }
```

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Options

1. 15
2. 11
3. 10
4. 13

2) Where the local variables are stored?

A. Disk B. Stack C. Heap D. 13

3) Select the missing statement?

#include<stdio.h> long int fact(int n); int main()
{

\\missing statement }

long int fact(int n) {

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```
if(n>=1)
return n*fact(n-1);

else
return 1;

}
```

Options

1. printf(“%ll\n",fact(5));
2. printf("%u\n",fact(5));
3. printf("%d\n",fact(5));
4. printf("%ld\n",fact(5));

4) Which of the following indicate the end of the file?

A. Feof()
B. EOF
C. Both feof() and EOF
D. None of the mentioned

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5) If a function's return type is not explicitly defined then it's default to _____ (In C).

A. int
B. float C. void D. Error

6) For passing command line argument the main function should be like _____

1. int main(char *argv[], int argc)
2. int main(int argc)
3. int main(char *argv[])
4. int main(int argc, char *argv[])

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7) How many times the below loop will be executed?

```
#include<stdio.h> int main()
{
int i; for(i=0;i<5;i++) {
printf("Hello\n"); }
}
```

Options

1. 5
2. 1
3. 0
4. 3

8) Which of the following is a User-defined data type?

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A. long int
B. double
C. unsigned long int D. enum

9) Which has the highest precision?

A. float
B. double
C. unsigned long int D. Long int

Floating point types

The following table provide the details of standard floating-point types with storage sizes and value ranges and their precision –

Type	Storage size	Value range	Precision
float	4 byte	1.2E-38 to 3.4E+38	6 decimal places

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double	8 byte	2.3E-308 to 1.7E+308	15 decimal places
long double	10 byte	3.4E-4932 to 1.1E+4932	19 decimal places

10) What will be the output/error?(for input: 6, 9

```
#include<stdio.h> int fg(int,int);
int main()
{

int n1,n2,g;

scanf("%d%d", &n1,&n2);

g=fg(n1,n2);

printf("%d",g); }

int fg(int x,int y)

{
while(x!=y) {
```

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```
if(x>y)
return fg(x-y,y);

else
return fg(x,y-x);

}

return x; }
```

Options

1. 3
2. 6
3. 9
4. Error

Tips to Crack Test

- Never guess an answer
- Attend only the questions you are reasonably certain of

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answering correctly

- If you don't get the answer in the first try then skip the question
- Read the question fully once and find out what they are asking
- Try not to panic at the sight of those long programming questions.
- Most programming questions are very simple which require you to do some **logical thinking** with a **clear mind**.

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