

**TIME REMAINING** End Exam  
**0:00:31**

**Note:** Please **SUBMIT** each question individually before ending the exam to receive score.  
**Note:** This is a monitored test.

## Questions

### Dice Probability

1 point possible (graded, results hidden)

A die is thrown 4 times. How many unique possible sequences exist where a number only appears once? E.g. 123456 is a valid sequence when a die is thrown 6 times while 112233 is not.

1679616

360

581

12

64

Submit

---

**i** Answer submitted.

### Average comparisons

1 point possible (graded, results hidden)

Each node in a full binary tree has twins except leaf nodes. How many steps on average are required to find a node in the same tree of size 11?

3.0

3.16

2.41

2.86

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1 point possible (graded, results hidden)

Suppose the physical memory in your computer can only hold 5 pages of data at any given time. If your program requests a page, the operating system checks if the page is in memory and returns it. If the page is not in memory, the operating system fetches that page from disk and loads the page in memory. This is called a page fault. If all pages in memory are already full, it replaces the least recently requested (also called LRU or least recently used) page with the page from disk. Suppose the pages are numbered 1-8 and initially no page is in memory, if your program requests the pages in the following order, what percentage of page faults will occur, rounded to the nearest integer? 3, 6, 6, 7, 2, 2, 2, 2, 6, 2, 5, 2, 3, 4

43%

46%

53%

28%

32%

**Submit**

---

**i** Answer submitted.

## File Merge

1 point possible (graded, results hidden)

The following are the binary sizes of files in a system.

file1=000101101b

file2=100101000b

What is the size when you merge these files?

101010001

101011110

101010101

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**i** Answer submitted.

## Word Mutation

1 point possible (graded, results hidden)

You are a QA tester. You are testing a script that calculates the minimum number of insertions, deletions, or substitutions required to transform one string into another.e.g. 4 steps are required to transform 'bat' into 'tubs'.What should the output of the script to transform 'intention' into 'execution'?

3

5

8

4

7

Submit

**i** Answer submitted.

## Employees Salary

1 point possible (graded, results hidden)

You are bright eyed intern in your dream company. You are eager to learn and impress your coworkers.Your supervisor gives you your first task, which seems simple enough.Which is the correct query to find the department with highest total salary,if You have an employee table with department and salary as columns.

select department, sum(salary) from employee group by department having sum(salary)>=max(sum(salary))

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- select department, sum(max(salary)) from employee group by department

Submit

**i** Answer submitted.

## General Mental Ability

1 point possible (graded, results hidden)

Question Statement

Find missing number in given series:

173, 206, ?, 284, 329?

- 243

- 236

- 237.0

- 244

Submit

**i** Answer submitted.

## Compiler Lexical Analysis for IoT Driven C Programs

1 point possible (graded, results hidden)

You are part of a team developing a **compiler for embedded systems** that powers IoT devices. These devices need to process dynamic instructions written in C, where conditional logic and arithmetic operations play a crucial role in controlling sensors and actuators. Your task is to simulate how the compiler would parse and analyze a given C program by identifying following in order:

1. Number of tokens

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Ensuring seamless execution of the device logic.

C Program:

```
int main() {  
    int var2 = 3 + 6 * 5 - 4;  
    int var4 = 6 + 10 * 6 - 2;  
    int var6 = 3 + 10 * 10 - 5;  
    int var8 = 8 + 9 * 7 - 3;  
    int var10 = 7 + 10 * 10 - 3;  
    int var12 = 9 + 6 * 1 - 4;  
    return 0;  
}
```

65,21,22

75,25,18

71,32,20

62,26,15

55,25,22

Submit

---

**i** Answer submitted.

## Mysterious Sum

1 point possible (graded, results hidden)  
What is the output of the following code?

```
list 1 = [70, 50, 53, 55, 28, 29]  
list 2 = [36, 19, 54, 25, 58, 31]
```

```
initial_toggle = False
```

```
loop_start = 1
```

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```
for ( j = 1; j < 6; j += max(i, 2)) {  
    if coin[int(toggle)] == 'head' {  
        secret_calculation += list1[i] * j  
    } else {  
        secret_calculation += list2[j] * i  
    }  
    toggle = !toggle  
}  
toggle = !toggle  
}  
return secret_calculation  
}
```

478

525

531

436

506

Submit

**i** Answer submitted.

## Finding maximum number

1 point possible (graded, results hidden)

A 10-digit number is given below. Find the maximum number obtainable by performing exactly two adjacent swaps.

Initial number: 8631725049

8653127049

8673125049

8673925041

8675123049

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- 
- ❶ Answer submitted.

## Finding Pattern

1 point possible (graded, results hidden)

Professor Xavier has invented a mysterious number transformer. When he inputs the number 28, his machine performs a special operation. Looking at the machine's previous results: When 32 goes in, 10 comes out. When 4 goes in, 5 comes out. When 12 goes in, 7 comes out. When 19 goes in, 7 comes out. What number will the machine output for 28?

"32=10, 4=5, 12=7, 19=7, 28=?"

12

15

11

10

14

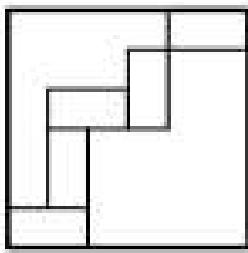
Submit

- 
- ❶ Answer submitted.

## Square Containing Identical Rectangles

1 point possible (graded, results hidden)

Refer to the diagram below, which shows a square containing five identical rectangles, each with dimensions L by W.



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 120 121 113 110Submit

---

❶ Answer submitted.

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## Find the Score

1 point possible (graded, results hidden)

**Table: Student\_Grade\_Level**

s_id	name	grade_level
986	Adeel	85
993	Nasir	76
985	Bilal	82
984	Saleem	81
983	Zain	72
992	Osama	84
994	Lubna	78
990	Shahid	83
982	Rameez	90
998	Bushra	92

**Table: Student\_Scores**

student_id	score
995	700
998	950
983	350
999	450

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Considering the above tables, what would be the output of following SQL query:

```
SELECT
    MIN(ss.score)
FROM
    Student_Grade_Level as sgl INNER JOIN student_score as ss
ON
    sgl.student_id = ss.s_id
WHERE sgl.grade_level > 77
GROUP BY sgl.student_id
HAVING MIN(ss.score) > 400
```

 900 750 450 950 700**Submit**

**i** Answer submitted.

## Inventory Performance

1 point possible (graded, results hidden)

Eren and Mikasa own a store and are analyzing which products were performing outstanding in January to improve their inventory strategy. To help with this, they asked Armin to analyze the sales and invoices data for January 2023. Armin wrote the SQL query.

```
SELECT
```

```
i.category,
```

```
SUM(inv.total_amount) AS total_revenue,
```

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```

WHEN SUM(inv.total_amount) BETWEEN 1000 AND 3000 THEN 'Good'
ELSE 'Average'
END AS performance

FROM inventory i
INNER JOIN sales s ON i.item_id = s.item_id
INNER JOIN invoice inv ON s.sale_id = inv.sale_id
WHERE s.sale_date BETWEEN '2023-01-01' AND '2023-01-31'
GROUP BY i.category
ORDER BY total_revenue DESC;

```

**Inventory Table:**

id	item_name	category	price_per_unit
1	Laptop	Electronics	1000
2	Smartphone	Electronics	500
3	Desk Chair	Furniture	200
4	Office Desk	Furniture	300
5	Coffee Machine	Appliances	100

**Sales Table:**

id	item_id	customer_id	sale_date	quantity_sold
1	3	124	2023-01-10	3
2	2	125	2023-01-11	2
3	1	126	2023-01-13	1
4	4	127	2023-01-15	3
5	5	128	2023-01-17	2
6	1	129	2023-01-19	4
7	3	130	2023-02-21	2
8	2	131	2023-02-23	1

**Invoice Table:**

id	sale_id	invoice_date	total_amount
1	1	2023-01-10	700

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6	6	2023-01-20	1000
7	7	2023-02-22	500
8	8	2023-02-25	1100

**Based on the data in the tables:**

What should be the **first two** rows of the query's output?



Electronics	2400	3	Good
Electronics	2000	2	Good



Appliances	1800	3	Good
Furniture	1700	2	Good



Electronics	2500	3	Good
Appliances	1900	2	Good



Electronics	2100	3	Good
Furniture	1500	2	Good



Electronics	1800	3	Good
Electronics	1900	2	Good

**Submit****❶ Answer submitted.**

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Discover one number was missing. Identify the missing number and help them check their powers

5, 15, 1115, 3115, \_\_\_\_\_, 1113122115

341243

132115

412135

151351

Submit

---

**i** Answer submitted.

---

## Smallest string containing characters of other string

1 point possible (graded, results hidden)

### Question Statement

Dry run the pseudocode for following inputs:

**s** = AGFICCGFCGDG

**p** = GFD

### Code:

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```
for (i = 0; i < m; i++) {  
    for (j = i; j < m; j++) {  
        substr = s[i : j + 1]; // selecting substring from ith to j+1 index  
  
        // This function returns True if the substring contains all characters of the pa  
        if (contains_all_characters(substr, p)) {  
            curr_len = length(substr);  
  
            if (curr_len < min_len) {  
                min_len = curr_len;  
                smallest_substring = substr;  
            }  
        }  
    }  
}  
  
return smallest_substring;  
}
```

 BI CHFB IDFH FBFBD FCGDSubmit

**i** Answer submitted.

## Fulfill Destiny

1 point possible (graded, results hidden)

In a faraway land, a powerful sorcerer has created a magical scroll that can reveal all the hidden secrets of a special set of runes. The scroll works in mysterious ways: it accepts a set of symbols as input and produces an output that reveals all possible paths through which the sorcerer can use the symbols in his spells. You have been tasked with deciphering the output of this scroll for a specific set of runes. The scroll has already been activated for the following input:

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KINGUOTTI awaits your discovery—what will the output of the scroll be for this input?

```
function decryptOutput(s) {
    n = length(s)
    totalBitsToOutput = 2 ^ n
    bitsToOutput = []
    for (b from 0 to totalBitsToOutput - 1) {
        bit = []
        for (i from 0 to n-1) {
            if (b & (1 << i)) != 0 {
                bit.append(s[i])
            }
        }
        bitsToOutput.append(bit)
    }
    return bitsToOutput
}
```

`[[], ['a'], ['a', 'b'], ['c'], ['a', 'c'], ['b', 'c'], ['a', 'b', 'c'], ['d'], ['a', 'd'], ['b', 'd'], ['a', 'b', 'd'], ['c', 'd'], ['a', 'c', 'd'], ['b', 'c', 'd'], ['a', 'b', 'c', 'd'], ['a', 'e'], ['b', 'e'], ['c', 'e'], ['a', 'c', 'e'], ['b', 'c', 'e'], ['a', 'b', 'c', 'e'], ['d', 'e'], ['a', 'd', 'e'], ['b', 'd', 'e'], ['a', 'b', 'd', 'e'], ['a', 'c', 'd', 'e'], ['b', 'c', 'd', 'e'], ['a', 'b', 'c', 'd', 'e']]`

`[[], ['a'], ['b'], ['a', 'b'], ['c'], ['a', 'c'], ['b', 'c'], ['a', 'b', 'c'], ['d'], ['a', 'd'], ['b', 'd'], ['a', 'b', 'd'], ['c', 'd'], ['a', 'c', 'd'], ['b', 'c', 'd'], ['a', 'b', 'c', 'd'], ['e'], ['a', 'e'], ['b', 'e'], ['a', 'b', 'e'], ['c', 'e'], ['a', 'c', 'e'], ['b', 'c', 'e'], ['a', 'b', 'c', 'e'], ['d', 'e'], ['a', 'd', 'e'], ['b', 'd', 'e'], ['a', 'b', 'd', 'e'], ['a', 'c', 'd', 'e'], ['b', 'c', 'd', 'e'], ['a', 'b', 'c', 'd', 'e']]`

`[[], ['b'], ['a', 'b'], ['c'], ['a', 'c'], ['b', 'c'], ['a', 'b', 'c'], ['d'], ['a', 'd'], ['b', 'd'], ['a', 'b', 'd'], ['c', 'd'], ['b', 'c', 'd'], ['a', 'b', 'c', 'd'], ['e'], ['b', 'e'], ['c', 'e'], ['a', 'c', 'e'], ['b', 'c', 'e'], ['a', 'b', 'c', 'e'], ['d', 'e'], ['a', 'd', 'e'], ['b', 'd', 'e'], ['a', 'b', 'd', 'e'], ['a', 'c', 'd', 'e'], ['b', 'c', 'd', 'e'], ['a', 'b', 'c', 'd', 'e']]`

`[['a'], ['b'], ['a', 'b'], ['a', 'c'], ['b', 'c'], ['a', 'b', 'c'], ['d'], ['a', 'd'], ['b', 'd'], ['c', 'd'], ['a', 'c', 'd'], ['b', 'c', 'd'], ['a', 'b', 'c', 'd'], ['e'], ['a', 'e'], ['b', 'e'], ['c', 'e'], ['a', 'c', 'e'], ['b', 'c', 'e'], ['a', 'b', 'c', 'e'], ['d', 'e'], ['a', 'd', 'e'], ['b', 'd', 'e'], ['a', 'b', 'd', 'e'], ['a', 'c', 'd', 'e'], ['b', 'c', 'd', 'e'], ['a', 'b', 'c', 'd', 'e']]`

**Submit**

**1** Answer submitted.

## Randomized Pattern

1 point possible (graded, results hidden)

Recognize the pattern generated by the following code snippet for values:

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```
function print_pattern(symbol, x, y) {  
    while (true) {  
        print(symbol * y);  
  
        y = y - x;  
  
        if (y <= x){  
            t = x;  
            x = y;  
            y = t;  
        }  
        if (x <= 0) {  
            break;  
        }  
    }  
}
```

- \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$  
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## Queries for updating Dynamic Ranges

1 point possible (graded, results hidden)

### Question Statement

You are given an array `nums` of size **13**, initially filled with zeros. You need to perform two types of operations on this array:

1. **Update the Range:** Add a value `xxx` to all elements in the range  $[l, r][l, r][l, r]$ , inclusive.

Format: `update(l, r, x)`. (Note: ranges starts from 0 similar to arrays)

2. **Query a Value:** Return the value of the array at a specific index. Format: `query(i)`.

Operations are as follows:

```
[  
  ["update", 0, 10, 12],  
  ["update", 5, 7, 7],  
  ["update", 4, 10, 8],  
  ["query", 8],  
]
```

 29 17 11 8 20**Submit**

**1** Answer submitted.

## Alphabet Arithmetic

1 point possible (graded, results hidden)

Imagine each capital letter in the following expression represents a unique number between 1 and 9.

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 1 9 7 5**Submit**

**i** Answer submitted.

## Recursive Sum

1 point possible (graded, results hidden)

Can you guess the output of the following function

```
function f(value){  
    xs = string.parse(value);  
    if (length(xs) == 0) {  
        return 2;  
    }  
    if (length(xs) == 1) {  
        return int(xs);  
    }  
    if (length(xs) == 2) {  
        n = int(xs[0]) + int(xs[1]);  
    }  
    else {  
        n = 9;  
    }  
  
    if (len(xs) == 3) {  
        return n;  
    }  
    else {  
        return n + f(xs[2:]);  
    }  
}  
f(3399)
```

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29

34

Submit

**i** Answer submitted.

## A Random Queue

1 point possible (graded, results hidden)

What will be the output of following function after queue operations

```
function solve() {  
    queue = Queue()  
    for(i = 1; i < 24; i = i + 1)  
    {  
        if i % 2 == 0  
            queue.push_back(i)  
        else  
            queue.push_front()  
    }  
    for(i = 0; i <= queue.size(); i++)  
        cout << queue[i] < " ";  
}
```

3 10 17 16 15 7 19 13 11 5 18 21 23 4 12 8 6 20 22 14 1 9 2

1 20 8 18 6 2 11 21 9 7 5 19 16 17 3 13 15 12 10 4 14 23 22

23 21 19 17 15 13 11 9 7 5 3 1 2 4 6 8 10 12 14 16 18 20 22

8 16 21 9 19 4 11 23 2 18 20 6 22 15 12 13 10 17 5 7 1 14 3

Submit

**i** Answer submitted.

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server's process scheduling algorithm was outdated To address this, they decided to evaluate the Shortest Remaining Time First (SRTF) algorithm as a potential replacement. Before finalizing their decision, they need to test the algorithm on sample data to determine its effectiveness. Run the Shortest Remaining Time First (SRTF) algorithm on the following process data and determine the correct order of execution

Process ID	Arrival Time	Burst Time
1	3	7
2	3	1
3	6	6
4	11	2

 2, 4, 1, 3

 1, 2, 4, 3

 2, 1, 3, 4

 2 ,1 ,4 ,3



---

**i** Answer submitted.

## Students Marks

1 point possible (graded, results hidden)

Solve the given SQL query.

Note: Your answer should be correct upto 2 decimal places.

## Subjects Table

SubjectID	SubjectName
102	Science
105	Biology
104	Chemistry

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2	2	102	56
3	3	102	77
4	4	102	60
5	5	102	65

```
SELECT
    ROUND(SUM(e.Marks) * 100.0 / (SELECT SUM(Marks) FROM Enrollments), 2) AS pc
FROM Enrollments e
JOIN Subjects s ON e.SubjectID = s.SubjectID
GROUP BY s.SubjectName
ORDER BY pc DESC
LIMIT 1;
```

 74.78

 63.88

 63.68

 86.68

**i** Answer submitted.

## Create BST

1 point possible (graded, results hidden)

Question: Create a Binary Search Tree (BST) with given elements: 15, 65, 8, 54, 37, 6, 51, 4, 43. Insert a node with the value 7 into the BST. What will be the post-order traversal of the updated BST?

 4, 7, 6, 8, 43, 51, 37, 54, 65, 15

 15, 8, 6, 4, 7, 51, 43, 37, 54, 65

 15, 8, 6, 4, 7, 65, 54, 37, 51, 43

 4, 6, 7, 8, 15, 37, 43, 51, 54, 65

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## Find the return value

1 point possible (graded, results hidden)

In a distant realm of binary warriors, a young coder named Zoe discovered an ancient algorithm that had been hidden within the archives of the castle's mainframe. The function, named  $f(x)$ , was said to determine how many "splits" a magical binary crystal could endure before reaching its core. The wizard who created it warned that its behavior was "as predictable as a tree shedding leaves," yet the kingdom depended on understanding its output. Zoe now faces a challenge to decode its behavior for a starting value of 15.

What will be the return value of a call to  $f(15)$ ?

```
function int f(int x)
```

```
{
```

```
    if(x > 1) {
```

```
        return f(x/2)+1
```

```
}
```

```
    return 1
```

```
}
```

 5 9 3 10

Submit

**i** Answer submitted.

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 16.25 17.71 10.54 15.47

**i** Answer submitted.

## Complexity Analysis

1 point possible (graded, results hidden)

What is the computational complexity of calling foo in terms of its input size?

```
function foo(arr) {  
    x = 1;  
    for (i = 0; i < length(arr); i++) {  
        for (j = 0; j < x; j++) {  
            process(arr[j]);  
        }  
        x += 2;  
    }  
}
```

 O(N log(N)) O(2^N) O(log(N)) O(N^2)

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1 point possible (graded, results hidden)

Suppose your password can be exactly 9 characters long and can only contain any of the UPPERCASE letters from E to M (both inclusive) e.g. JEELGGMIL, IJFJLIKKE and KJGELIKLK are all valid passwords. If a hacker can attempt 66240 passwords in a minute, approximately how many seconds will it take for her, in the worst case, to crack your password using a brute force approach?

350924.35597826086

5822.739266304347

345051.6167119565

5848.739266304347

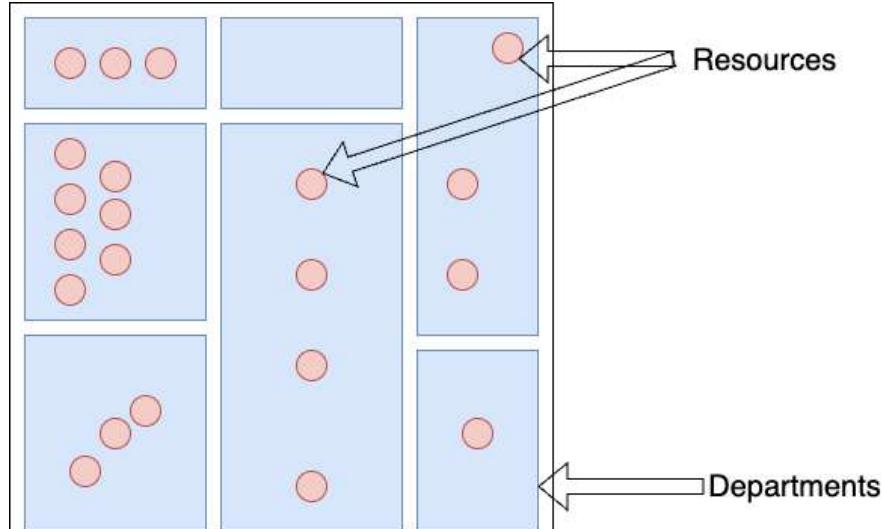
350900.35597826086

Submit

**i** Answer submitted.

## Manage Resources on the Floor

1 point possible (graded, results hidden)



! Difference b/w min and max resources = K  
Each Department can have multiple resources  
Departments = [4-R, 5-R, 18-R, 10-R .... N]

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**Note: This is a monitored test.**

- You can transfer resources from one department to another.
- The cost is 1 unit per resource transferred.
- The goal is to minimize the difference between the maximum and minimum resources to at most **k** while keeping the **cost as low as possible**.

Your task is to find **the minimum cost** to balance the departments.

$k = 1$  and departments = [18, 20, 13, 30, 29, 29]

122

127

130

126

124

Submit

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❶ Answer submitted.

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