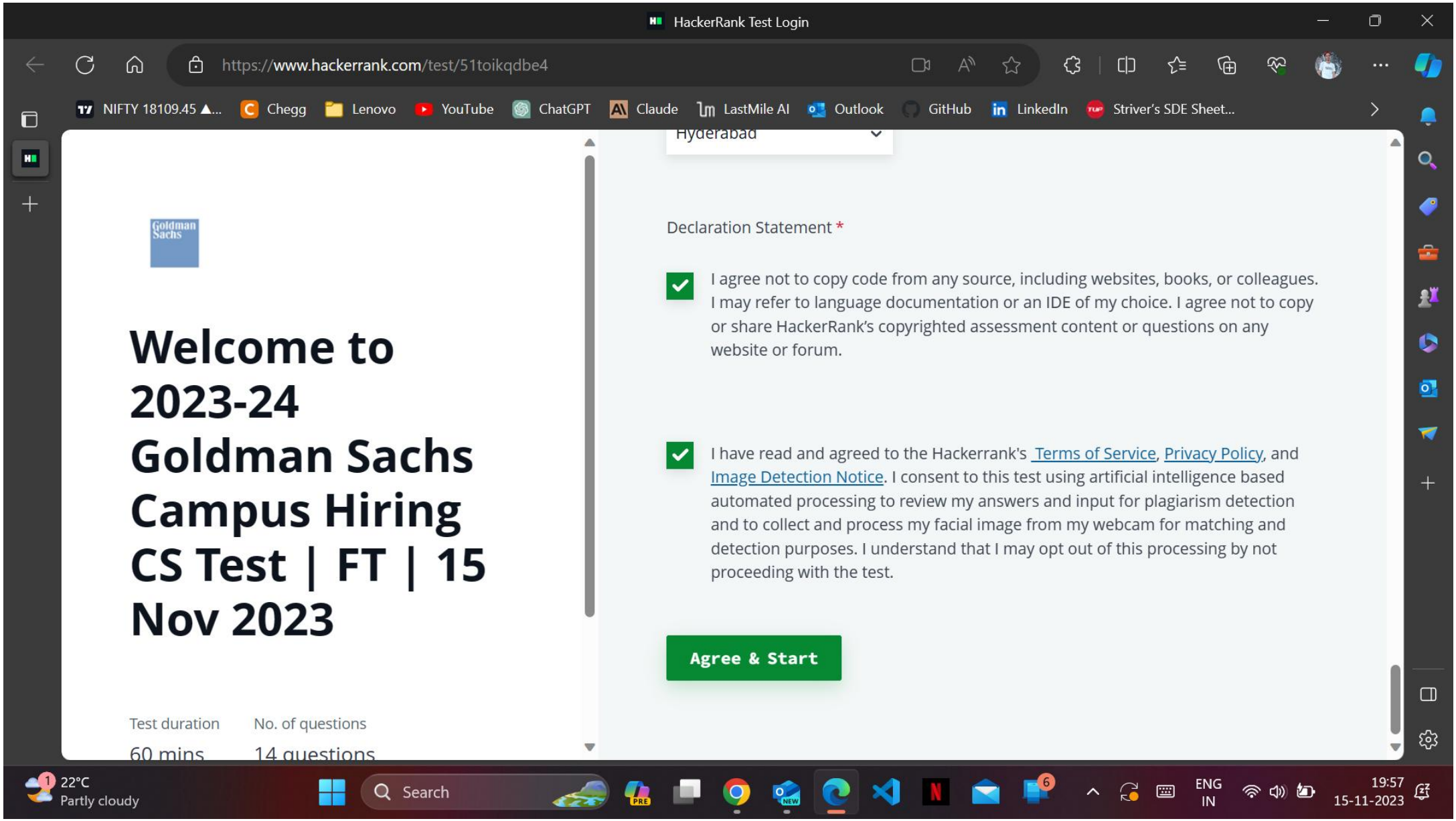

HackerRank Test Login
https://www.hackerrank.com/test/51toikqdbe4
NIFTY 18109.45 ▲...
Chegg
Lenovo
YouTube
ChatGPT
Claude
LastMile AI
Outlook
GitHub
LinkedIn
Striver's SDE Sheet...
Hyderabad
Goldman Sachs
Welcome to 2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023
Test duration
60 mins
No. of questions
14 questions
Declaration Statement *
I agree not to copy code from any source, including websites, books, or colleagues. I may refer to language documentation or an IDE of my choice. I agree not to copy or share HackerRank's copyrighted assessment content or questions on any website or forum.
I have read and agreed to the Hackerrank's Terms of Service, Privacy Policy, and Image Detection Notice. I consent to this test using artificial intelligence based automated processing to review my answers and input for plagiarism detection and to collect and process my facial image from my webcam for matching and detection purposes. I understand that I may opt out of this processing by not proceeding with the test.
Agree & Start
22°C
Partly cloudy
Search
ENG
IN
19:57
15-11-2023

HackerRank Question - OOPs

https://www.hackerrank.com/test/51toikqdbe4/questions/70rorhcg6r7

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 49 mins | Ankit Rajput

ALL

1 2 3 4 5

1. OOPs

What will be the output of the program given below?:

```
class Hello
{
   void m1()
   {
      System.out.print("H1");
   }
   void m2()
   {
      System.out.print("H2");
      m1();
   }
}
class Test10 extends Hello
{
   void m1()
   {
      System.out.print("T1");
   }
   public static void main(String[] args)
```

22°C Partly cloudy | Search | ENG IN | 20:01 15-11-2023

HackerRank Question - OOPs

https://www.hackerrank.com/test/51toikqdbe4/questions/70rorhcg6r7

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 49 mins | Ankit Rajput

ALL

1
2
3
4
5

```
    {
        System.out.print("T1");
    }
    public static void main(String[] args)
    {
        Test10 t=new Test10();
        t.m2();
        Hello h1=new Hello();
        h1.m2();
    }
}
```

Pick **ONE** option

- H2T1H2H1
- H2H1H2H1

22°C Partly cloudy | Search | ENG IN | 20:01 15-11-2023

HackerRank Question - OOPs

https://www.hackerrank.com/test/51toikqdbe4/questions/70rorhcg6r7

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 49 mins | Ankit Rajput

ALL

1

2

3

4

5

- H2T1H2H1
- H2H1H2H1
- Compile time Error
- H2T1H2T1

Clear Selection

2. Tree Traversal

22°C Partly cloudy | Search | ENG IN | 20:01 15-11-2023

HackerRank Question - Tree Traversal

https://www.hackerrank.com/test/51toikqdbe4/questions/bc04m6tct6k

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 49 mins | Ankit Rajput

ALL

1
2
3
4
5

2. Tree Traversal

What is the inorder traversal of the max heap formed from the following elements?
13 12 1 44 15 6 57 46 35 14

Pick **ONE** option

- 12 15 35 13 14 46 1 6 44 57
- 12 35 15 46 13 14 57 1 44 6
- 57 46 35 12 15 14 13 44 1 6
- 57 46 44 35 14 12 15 13 1 6

Clear Selection

22°C Partly cloudy | Search | ENG IN | 20:01 15-11-2023

HackerRank Question - Unbalanced Tree

https://www.hackerrank.com/test/51toikqdbe4/questions/6bijfhdi73l

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 49 mins | Ankit Rajput

ALL

1
2
3
4
5

3. Unbalanced Tree

Create a search tree with the given elements. 42 15 76 87 52 60 48 33. Delete 33. If the tree is unbalanced, what is the minimum no of rotations needed to balance the tree?

Pick **ONE** option

- 1
- 2
- 3
- 4

Clear Selection

22°C Partly cloudy | Search | ENG IN | 20:01 15-11-2023

HackerRank Question - Sorting Algorithm

https://www.hackerrank.com/test/51toikqdbe4/questions/31g1nigntp0

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 49 mins | Ankit Rajput

ALL

2 3 4 5 6

4. Sorting Algorithm

Identify the type of sorting performed in the below code:

```
void Test(int arr[], int n)
{
  int i, key, j;
  for (i = 1; i < n; i++)
  {
     key = arr[i];
     j = i-1;
     while (j >= 0 && arr[j] > key)
     {
        arr[j+1] = arr[j];
        j = j-1;
     }
     arr[j+1] = key;
  }
}
```

22°C Partly cloudy | Search | ENG IN | 20:01 15-11-2023

HackerRank Question - Sorting Algorithm

https://www.hackerrank.com/test/51toikqdbe4/questions/31g1nigntp0

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 49 mins | Ankit Rajput

```
        }
        arr[j+1] = key;
    }
}
```

ALL

Pick **ONE** option

- Selection Sort
- Bubble Sort
- Quick Sort
- Insertion Sort

Clear Selection

2 3 4 5 6

22°C Partly cloudy | Search | ENG IN | 20:01 15-11-2023

5. Heap

What task does the below function perform?

```
void Test(int arr[], int N, int index)
{
   int largest = index;
   int left = 2*index + 1;
   int right = 2*index + 2;

   if (left < N && arr[left] > arr[largest])
      largest = left;

   if (right < N && arr[right] > arr[largest])
      largest = right;

   if (largest!= index)
   {
      swap(arr[index], arr[largest]);
      Test(arr, N, largest);
   }
}
```

ALL

3
4
5
6
7

HackerRank Question - Heap

https://www.hackerrank.com/test/51toikqdbe4/questions/fcccb163eqj

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 48 mins | Ankit Rajput

```
    {
        swap(arr[index], arr[largest]);
        Test(arr, N, largest);
    }
}
```

ALL

3
4
5
6
7

Pick **ONE** option

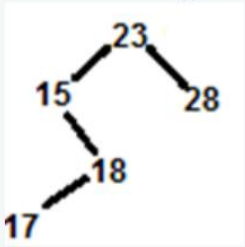
- Sort a heap tree
- Heapify
- Insert in a heap tree
- Delete from a heap tree

Clear Selection

22°C Partly cloudy | Search | ENG IN | 20:01 15-11-2023

6. BST

Consider the BST given below:



What will be the in-order traversal of the above tree?

Pick **ONE** option

- 15 18 17 23 28
- 15 23 28 17 18
- 17 18 15 23 28

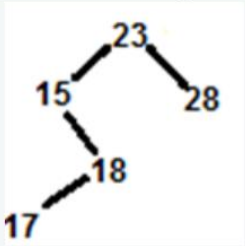
HackerRank Question - BST

https://www.hackerrank.com/test/51toikqdbe4/questions/etlb5fb5bfc

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 48 mins | Ankit Rajput

ALL



What will be the in-order traversal of the above tree?

Pick **ONE** option

- 15 18 17 23 28
- 15 23 28 17 18
- 17 18 15 23 28
- 17 18 23 15 28

Clear Selection

4
5
6
7
8

22°C Partly cloudy | Search | ENG IN | 20:02 15-11-2023

7. Code Error

Given:

```
class Hello
{
   Hello()
   {
      System.out.println("Hi");
   }
}
class Test10 extends Hello
{
   void m1()
   {
      System.out.println(this); //Line-11
      System.out.println(super);//Line-12
   }
   public static void main(String[] args)
   {
      Test10 t=new Test10();
      System.out.println("Hello");
```

ALL

5 6 7 8 9

HackerRank Question - Code Error

https://www.hackerrank.com/test/51toikqdbe4/questions/fqj58otm3j9

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 48 mins | Ankit Rajput

```
        t.m1();
    }
}
```

ALL

Which of the options given below is/are true about the above program?

I) Error at Line-11
II) Error at Line-12
III) No error

Pick **ONE** option

- Only (I)
- Only (II)
- Only (III)
- Both (I) and (II)

5
6
7
8
9

22°C Partly cloudy | Search | ENG IN | 20:02 15-11-2023

HackerRank Question - Print output

https://www.hackerrank.com/test/51toikqdbe4/questions/ajjfpl5hdjo

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 48 mins | Ankit Rajput

ALL

6
7
8
9
10

8. Print output

In the following program, how many times, i will be printed?

```
main()
{
  int i=1;
  fork();
  fork();
  fork();
  printf("%d",i);
}
```

Pick **ONE** option

- 3
- 8

22°C Partly cloudy | Search | ENG IN | 20:02 15-11-2023

HackerRank Question - Print output

https://www.hackerrank.com/test/51toikqdbe4/questions/ajjfpl5hdjo

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 48 mins | Ankit Rajput

```
  fork();
  printf("%d",i);
}
```

ALL

Pick **ONE** option

- 3
- 8
- 4
- 6

Clear Selection

6
7
8
9
10

22°C Partly cloudy | Search | ENG IN | 20:02 15-11-2023

HackerRank Question - Perfect Square

https://www.hackerrank.com/test/51toikqdbe4/questions/23hn5dnl4gl

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: **0 / 14** | **48 mins** | Ankit Rajput

ALL

7
8
9
10
11

9. Perfect Square

N is a perfect square number consisting of x digits. If each of the digits is increased by (x-3), then the new number formed is also a perfect square. Find the sum of digits of N if x = 4.

Pick **ONE** option

- 8
- 7
- 9
- 6

Clear Selection

22°C Partly cloudy | Search | ENG IN | 20:02 15-11-2023

HackerRank Question - Probability

https://www.hackerrank.com/test/51toikqdbe4/questions/6sqprr3501j

NIFTY 18109.45 ▲... | Chegg | Lenovo | YouTube | ChatGPT | Claude | LastMile AI | Outlook | GitHub | LinkedIn | Striver's SDE Sheet...

2023-24 Goldman Sachs Campus Hiring CS Test | FT | 15 Nov 2023 | Answered: 0 / 14 | 48 mins | Ankit Rajput

ALL

8
9
10
11
12

10. Probability

There are 99 employees in a bank, each employee has a Unique Identification number (N) that lies between (100, 200). If an employee is picked randomly, then find the probability that N is divisible by either 4 or 7.

Pick **ONE** option

- 0.3434
- 0.5656
- 0.2323
- 0.1212

Clear Selection

22°C Partly cloudy | Search | ENG IN | 20:02 15-11-2023