2 questions Total score: 100

1 Programming question

1. Character at K

+ 50.0

1 Java project question

2. Shapes

+ 50.0

If N = 3, str = [abcc, trea, zape], <math>Q = 2.

- Question 1: L = 2, R = 3, K = 5. Concatenated string: treazape. Concatenated string in sorted order: aaeeprtz. 5th character is p.
- Question 2: L = 2, R = 2, K = 1. Concatenated string: trea. Concatenated string in sorted order: aert. 1st character is a.

Function Description

Complete the char_at_K function provided in the editor. The function takes the following 4 parameters and returns $\it K^{th}$ character of the concatenated string.

- . N : Represents the number of strings
- str : Represents the list of N strings
- · Q : Represents the number of questions
- · query : Represents Q questions each containing three integers L, R and K.

Input format

- First line: N (number of strings in the list)
- Next N lines: String $S_{m{i}}$
- Next line: Q (number of questions)
- Next Q lines: Three space-separated integers, $L,\,R$, and K

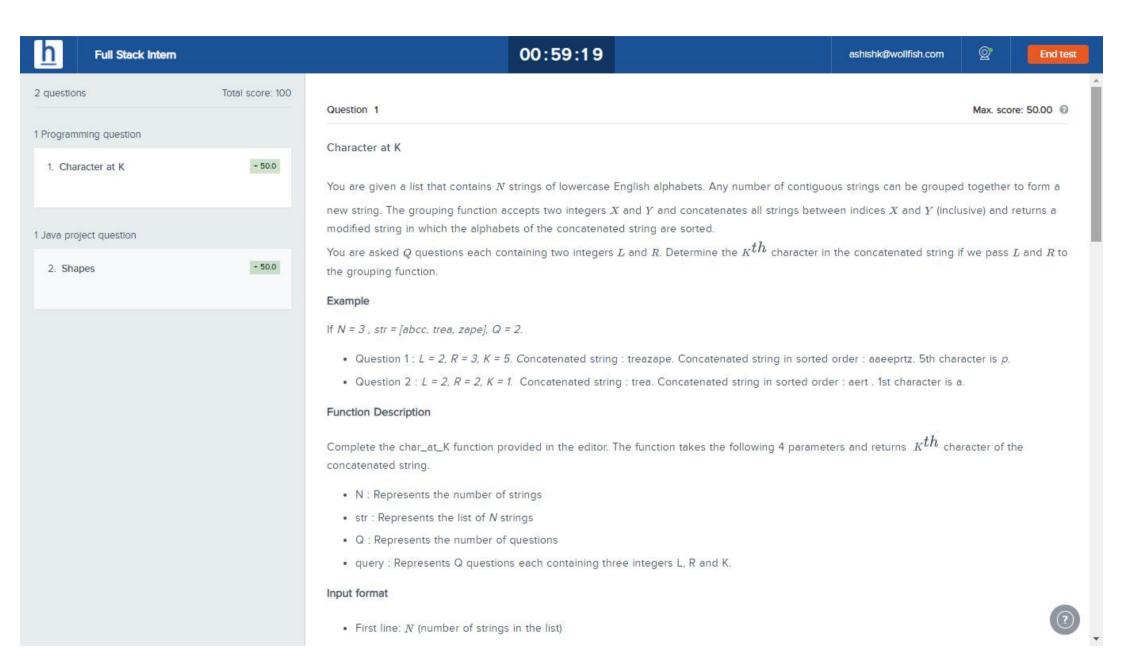
Output format

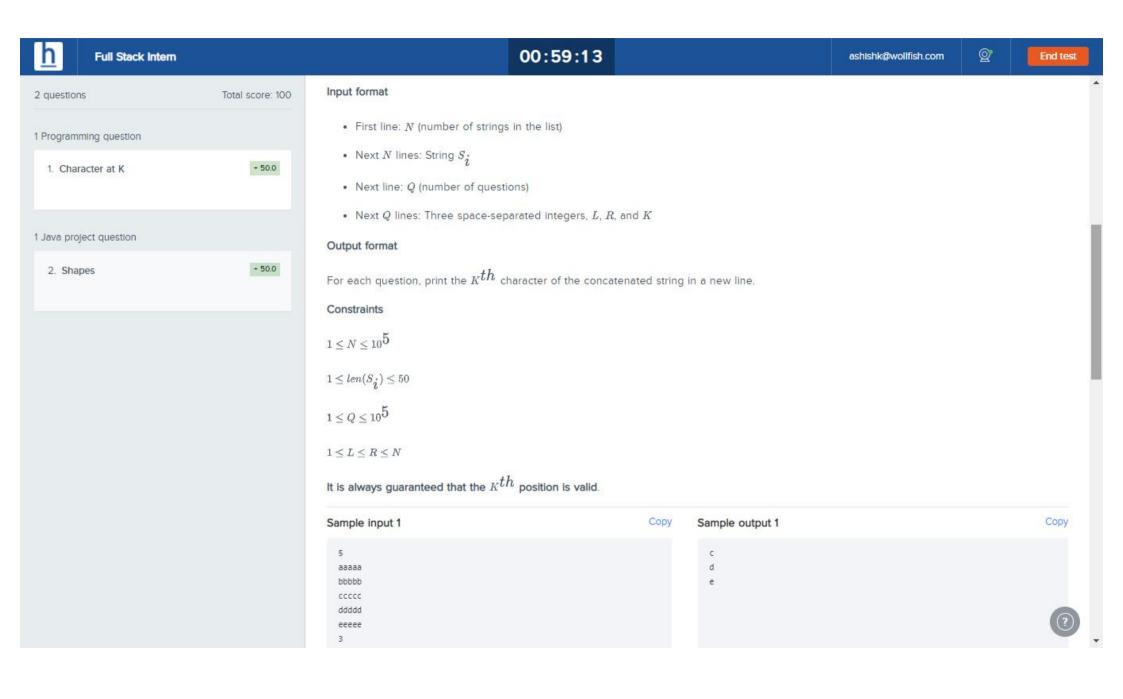
For each question, print the K^{th} character of the concatenated string in a new line.

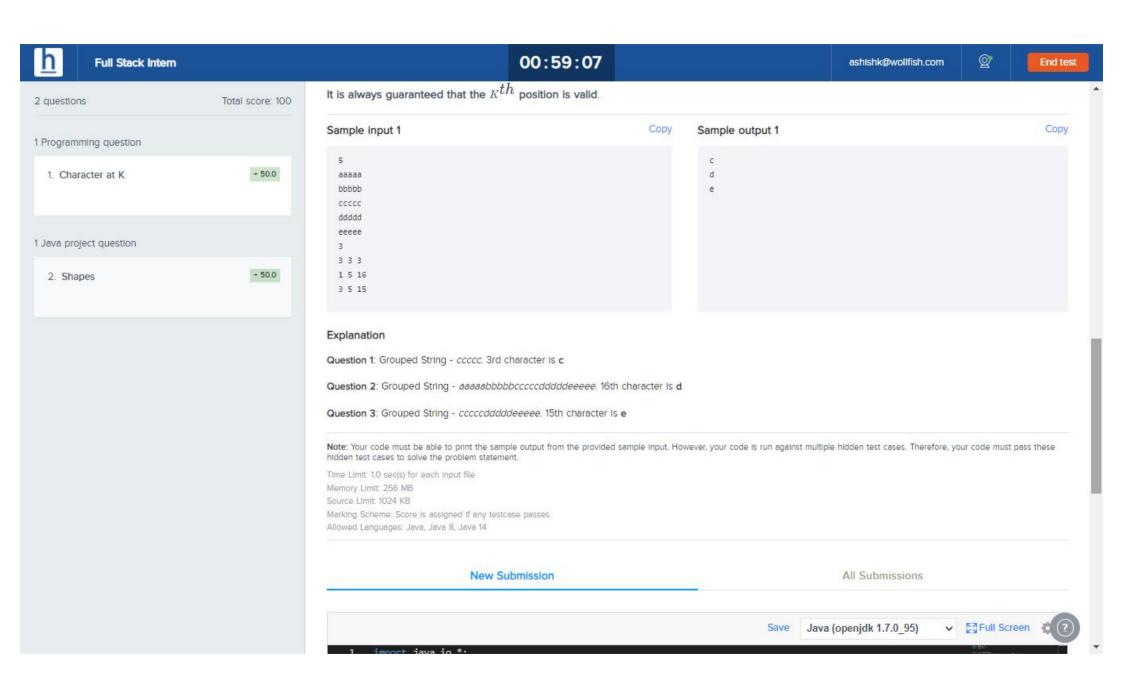
Constraints

$$1 \le N \le 10^{\textstyle 5}$$

 $1 < len(S_z) < 50$







```
2 questions Total score: 100

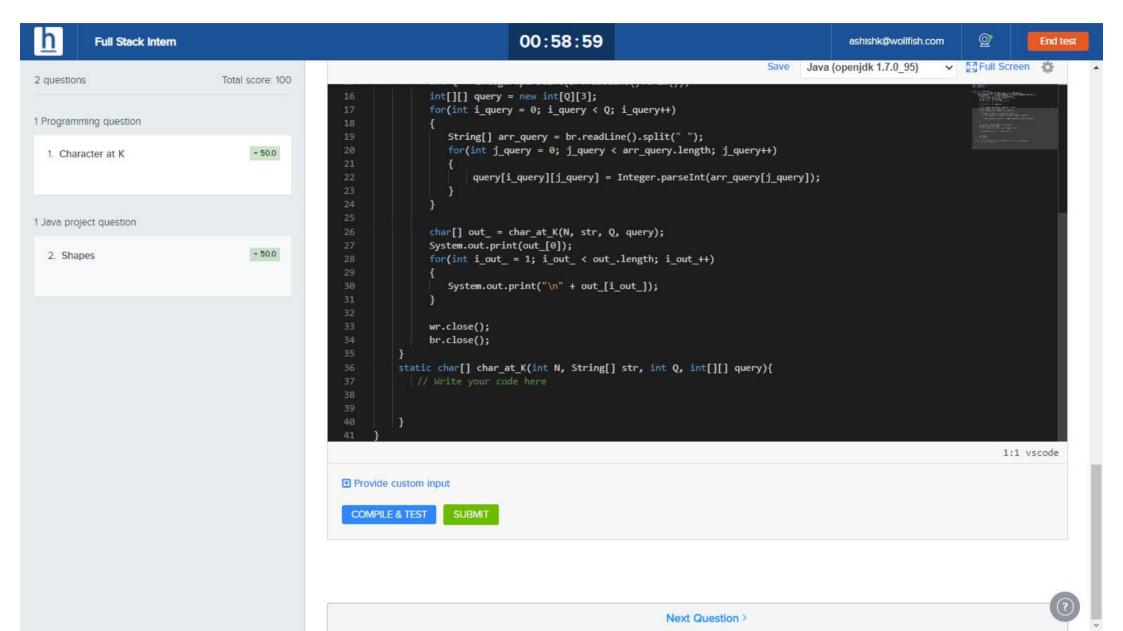
1 Programming question

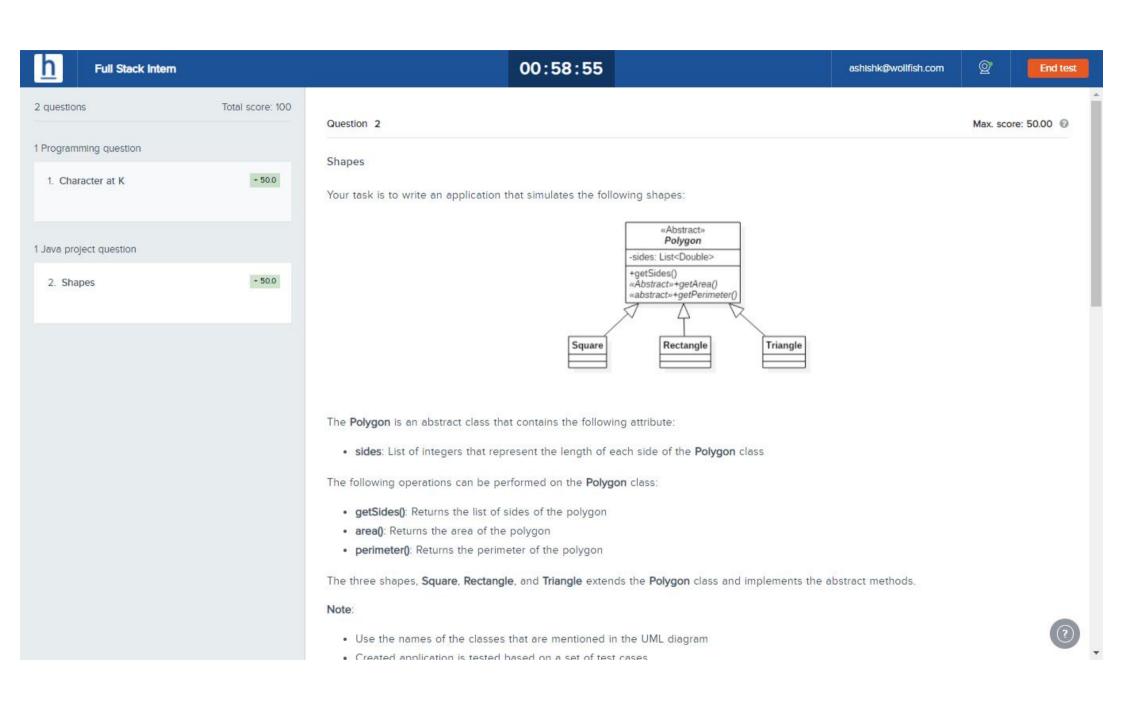
1. Character at K -50.0

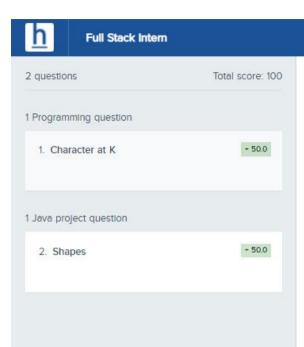
1 Java project question

2. Shapes +50.0
```

```
Java (openjdk 1.7.0 95)
                                                                                                              V Full Screen
      import java.io.*;
      import java.util.*;
     public class TestClass {
          public static void main(String[] args) throws IOException {
               BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
               PrintWriter wr = new PrintWriter(System.out);
               int N = Integer.parseInt(br.readLine().trim());
               String[] str = new String[N];
               for(int i str = 0; i str < N; i str++)</pre>
                   str[i str] = br.readLine();
                int Q = Integer.parseInt(br.readLine().trim());
                int[][] query = new int[Q][3];
               for(int i_query = 0; i_query < Q; i_query++)</pre>
                   String[] arr query = br.readLine().split(" ");
                   for(int j_query = 0; j_query < arr_query.length; j_query++)</pre>
                       query[i_query][j_query] = Integer.parseInt(arr_query[j_query]);
               char[] out_ = char_at_K(N, str, Q, query);
                                                                                                                         1:1 vscode
Provide custom input
  COMPILE & TEST
```







00:58:51

ashishk@wollfish.com



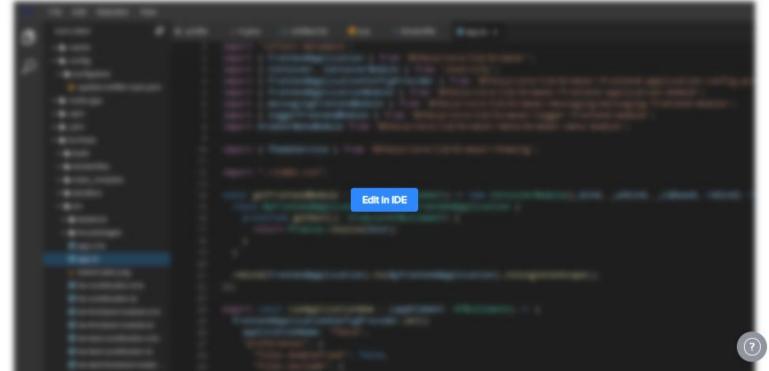


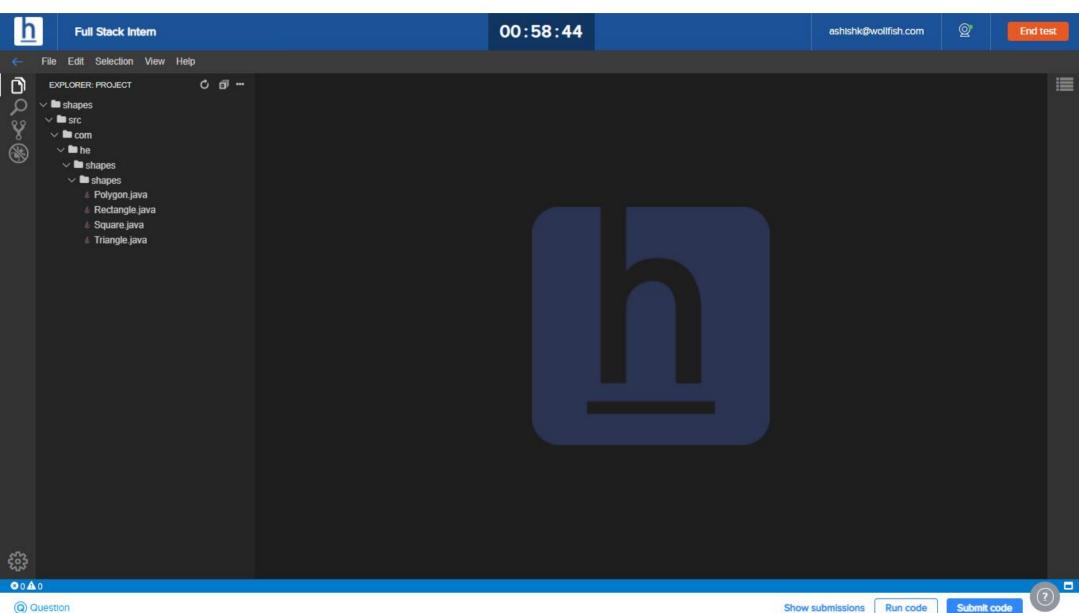
The three shapes, Square, Rectangle, and Triangle extends the Polygon class and implements the abstract methods.

Note:

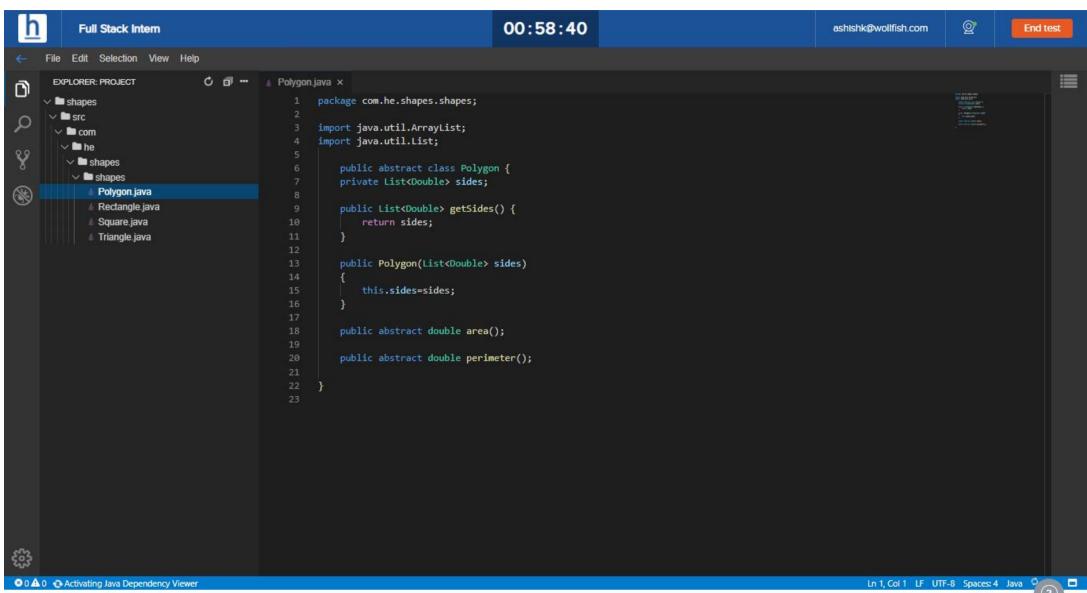
- · Use the names of the classes that are mentioned in the UML diagram
- · Created application is tested based on a set of test cases
- · Test your application with the sample test case that is visible to you
- Once you submit your application, the remaining internal test cases are executed and the score is assigned.
- · Do not change the folder structure and class names.

Note: This question will be evaluated based on the number of test cases that your code passes.





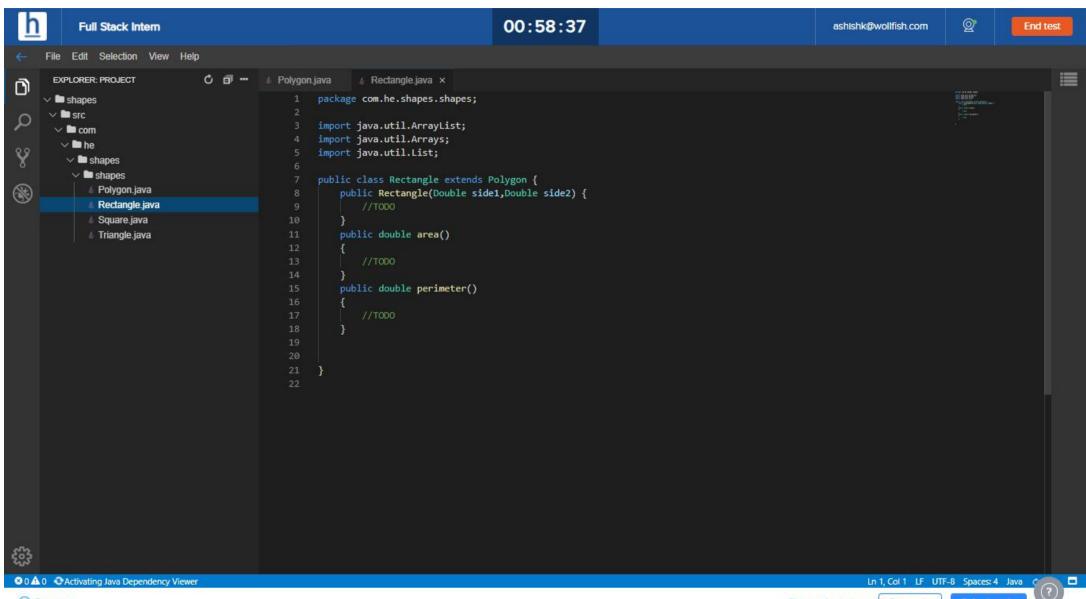
Run code



Q Question

Show submissions

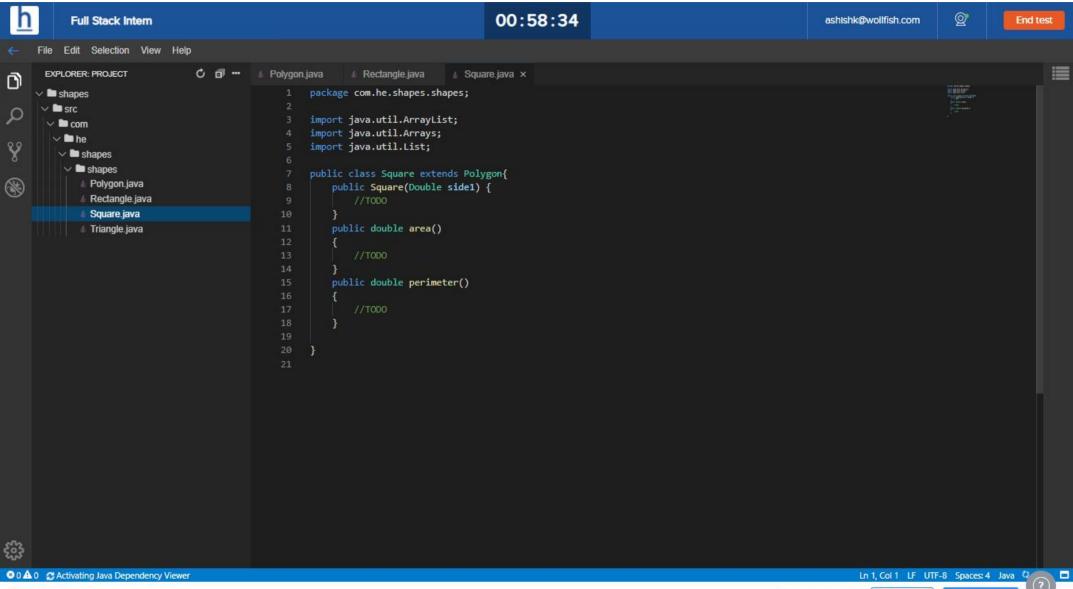
Run code



Q Question

Show submissions

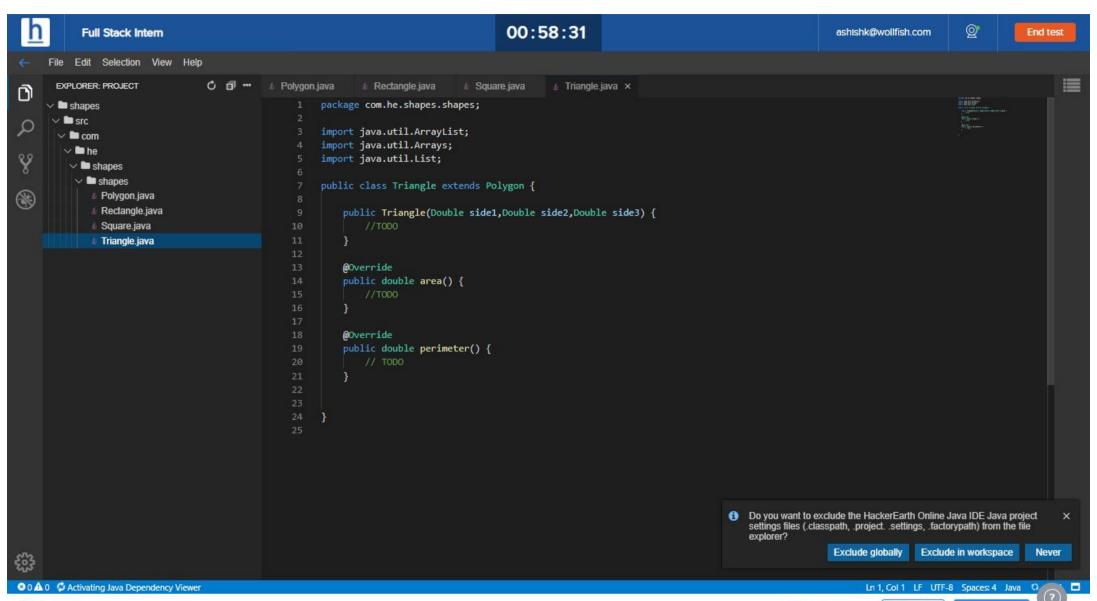
Run code

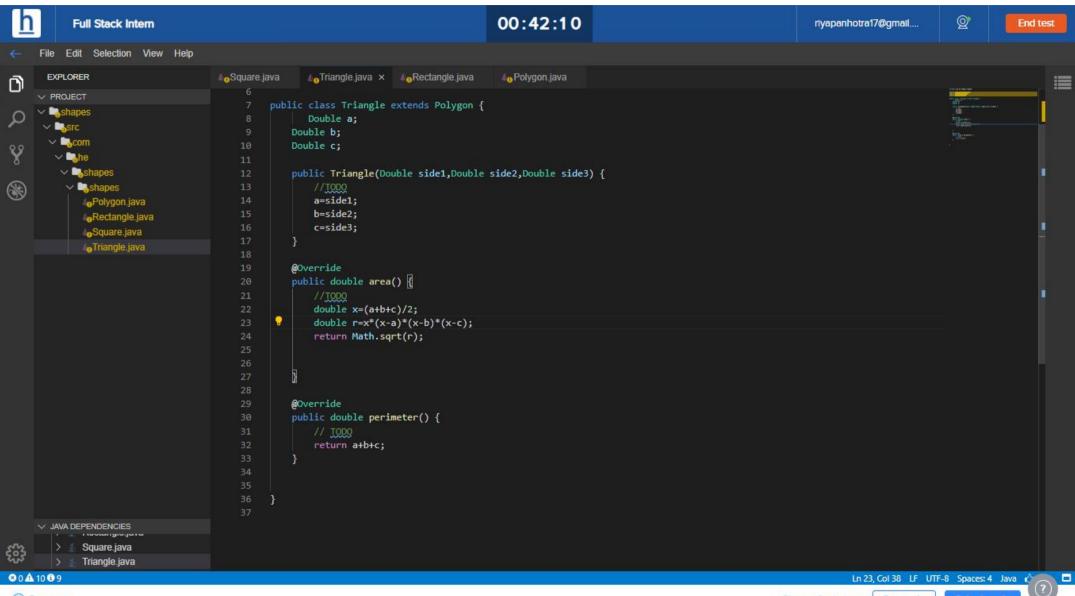


Q Question

Show submissions

Run code

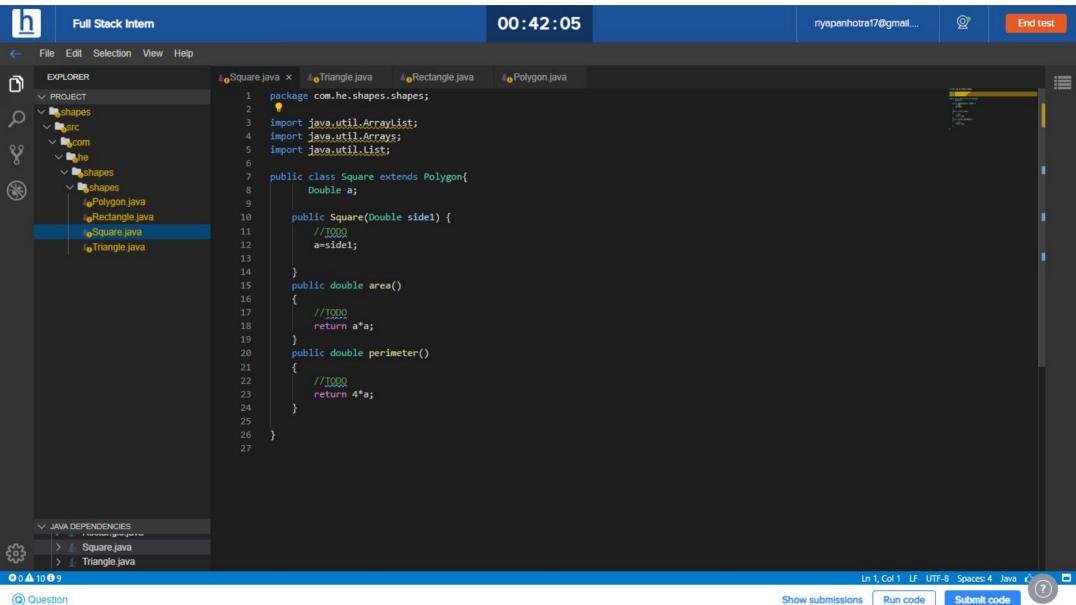


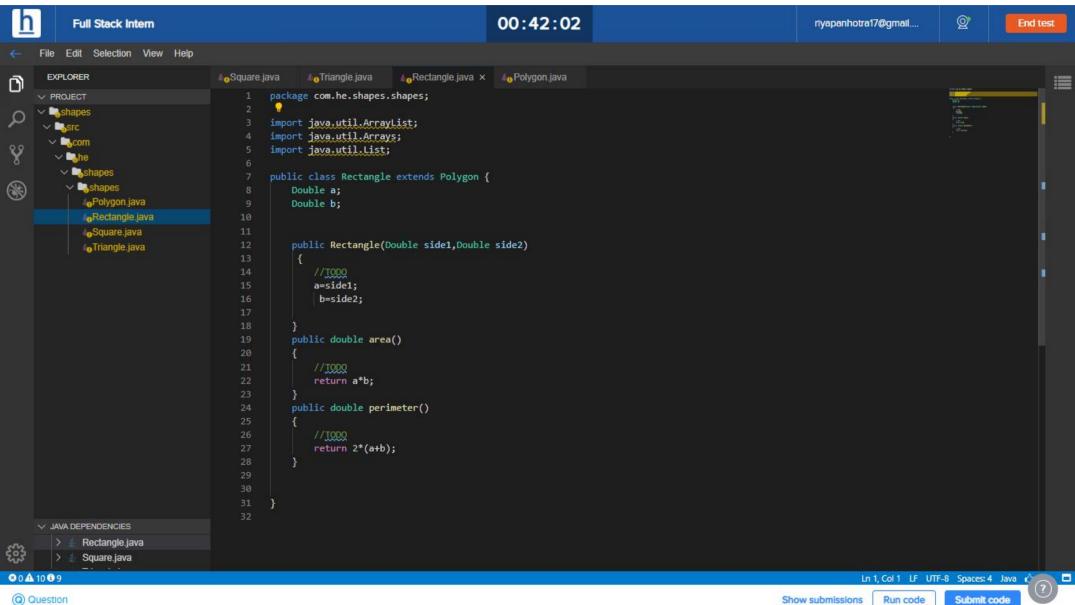


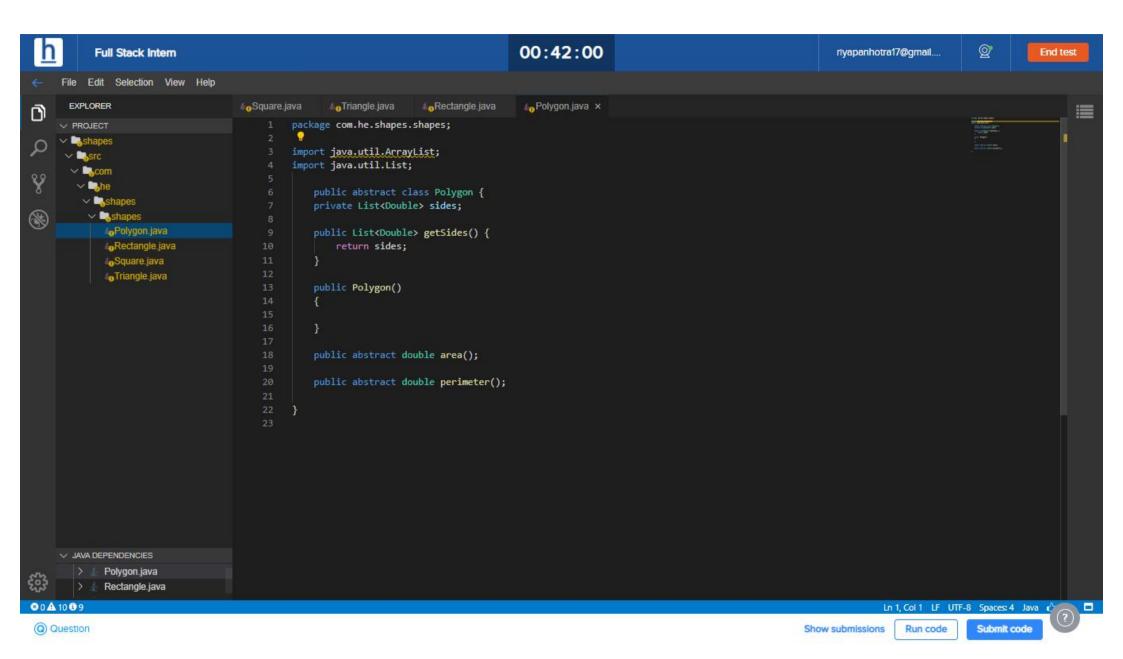
© Question

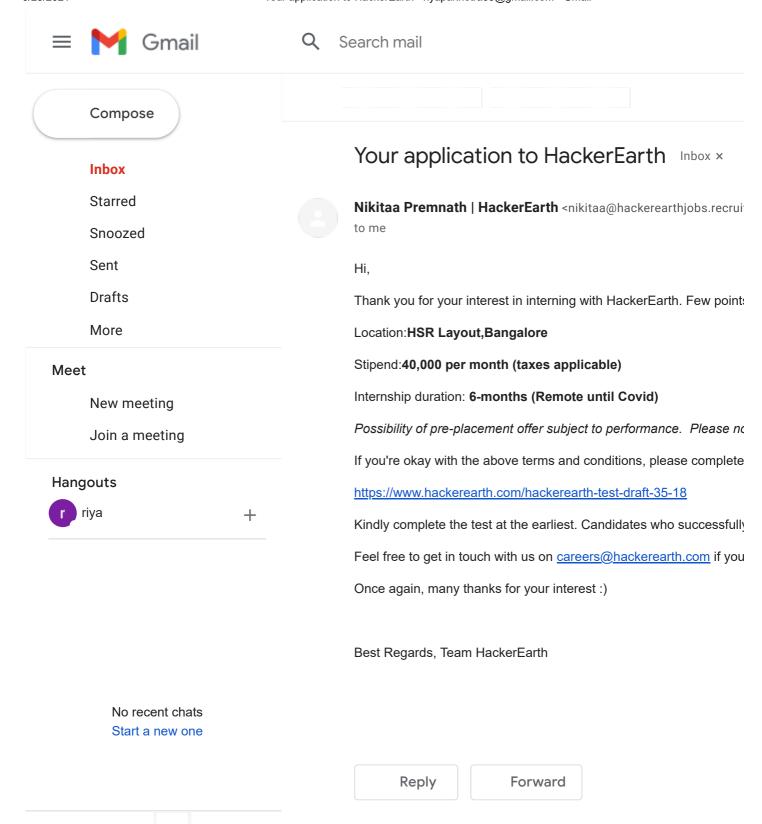
Run code

code Submit code









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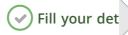
Full Stack Intern

01:00:00

sk2980039@gmail.com ∨



Enter the te





4 Solve Questions

Use this time to read the instructions.

Test Instructions

- 1. Ensure that you are attempting the test using the correct email ID & kinldy take the test in JAVA as we would like to access the JAVA & SpringBoot skills
- 2. You must click **Submit** after you answer each question.
- 3. If you need assistance during the test, click the question mark (?) in the lower-right corner of the page to raise a ticket.
- 4. Once the test has started, the timer cannot be paused. You have to complete the test in one attempt.
- 5. Do not close the browser window or tab of the test interface before you submit your final answers.
- 6. It is recommended that you ensure that your system meets HackerEarth's compatibility requirements and check your Internet connection before starting the test.
- 7. It is recommended that you attempt the test in an incognito or private window so that any extensions installed do not interfere with the test environment.
- 8. We recommend that you close all other windows and tabs to ensure that there are no distractions.

Question-specific Instructions

Programming

• Select a programming language from the list before attempting each question.

You can start solving problems now

Start Test •



Proctoring Instructions

- 1. You can only copy and paste code within the code editor. However, nothing can be copied and pasted from any external sources including code from the code editor of another question, external websites, etc.
- 2. This test is being monitored remotely. Your webcam must be turned on at all times.
- 3. This test can be taken in full-screen mode only.

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• For all programming problems, the inputs are taken from STDIN and output to STDOUT.

 Click COMPILE & TEST to run your solution against relevant sample test cases before submitting your answer. This is applicable for programming questions only.

```
14
                str[i str] = br.readLine();
             int Q = Integer.parseInt(br.readLine().trim());
             int[][] query = new int[Q][3];
18
              for(int i_query = 0; i_query < Q; i_query++)</pre>
                String[] arr_query = br.readLine().split(" ");
20
                for(int j query = 0; j query < arr query.length; j query++)</pre>
                     query[i query][j query] = Integer.parseInt(arr query[j query]);
24
             char[] out_ = char_at_K(N, str, Q, query);
             System.out.print(out [0]);
28
29
              for(int i_out_ = 1; i_out_ < out_.length; i_out_++)
                System.out.print("\n" + out [i out ]);
             wr.close();
             br.close();
36
        static char[] char_at_K(int N, String[] str, int Q, int[][] query){
   char x[]=new char[Q];
   int index=0;
              ArrayList<String> l=new ArrayList<>();
40
           for(int i=0;i<N;i++)
               1.add(str[i]);
44
           for(int i=0;i<Q;i++)
46
47
              int L=query[i][0];
               int R=query[i][1];
48
                int K=query[i][2];
49
                  List<String> alphfiltered = l.subList(L-1, R);
50
            alphfiltered.sort((o1, o2) -> o1.compareTo(o2));
            StringBuffer sb = new StringBuffer();
            alphfiltered.forEach(s -> sb.append(s));
            char tempArray[] = sb.toString().toCharArray();
54
            Arrays.sort(tempArray);
            String substring=new String(tempArray);
56
            char h=substring.toCharArray()[K-1];
           x[index++]=h;
60
           }
61
62
        return x;
```