Recro

Assessment report

Java - Recro (Screening)

Report Access URL: https://p.hck.re/muRi

Nataraj

RANK*	TOTAL SCORE	ATTEMPTED
646/2129	40/78	11 of 11 questions

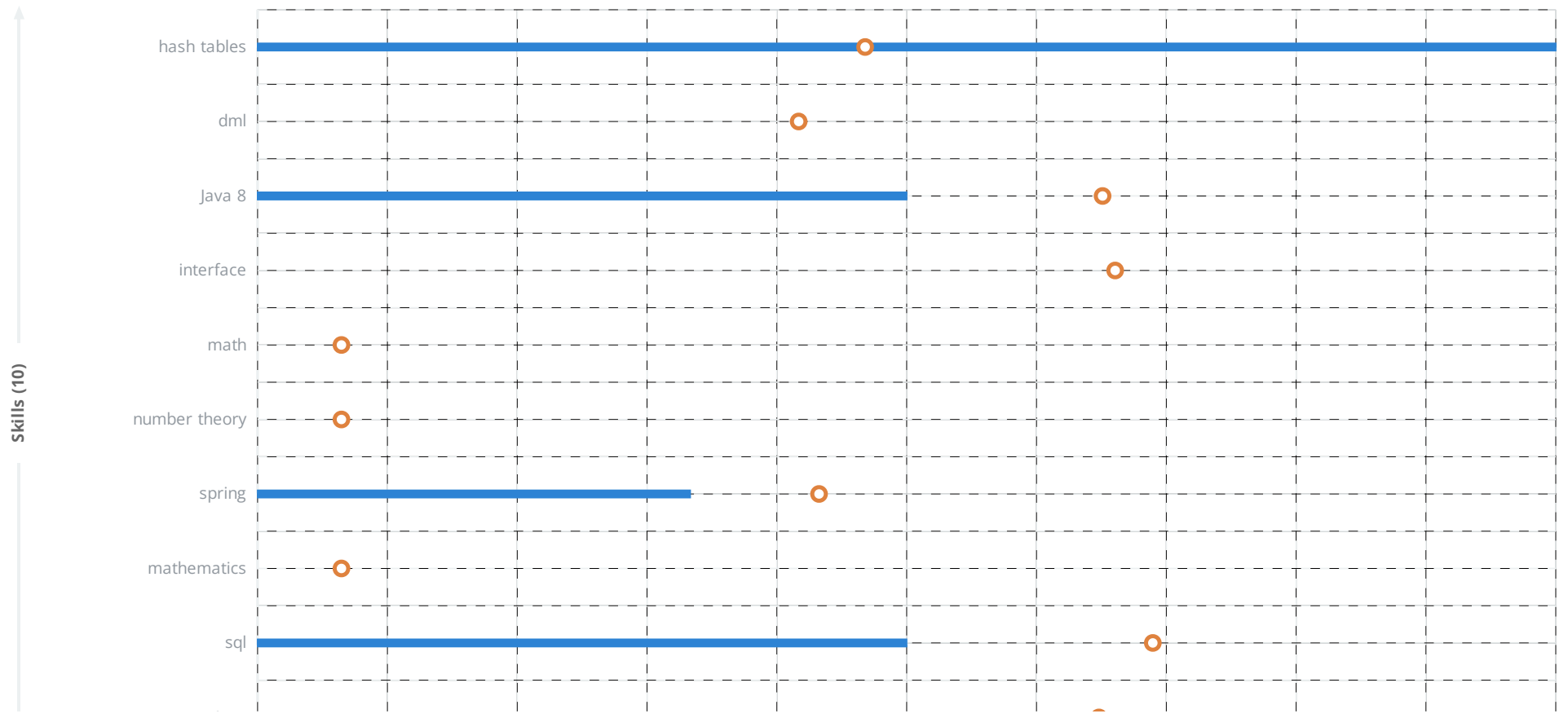
Test time analysis

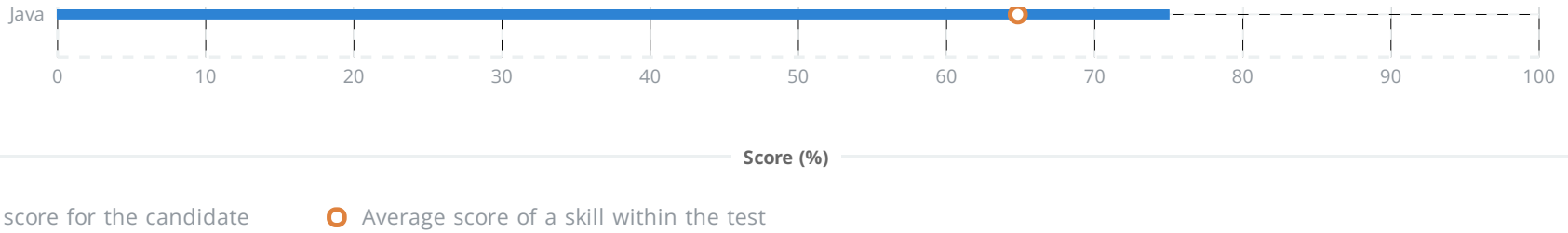
TEST INVITE TIME	TEST START TIME	TEST END TIME
Mar 25 2022, 06:36:24 PM IST	Mar 26 2022, 11:54:57 AM IST	Mar 26 2022, 12:56:27 PM IST

TEST DURATION

1 hr 1 min 30 sec of 1 hr 10 min used.

Skill-wise performance





Top Performer

Top performer: spring

You have scored the 3rd highest score in spring.

Top performer: Java

You have scored the 2nd highest score in Java.

Top performer: hash tables

You have scored the highest score in hash tables.

Top performer: sql

You have scored the 3rd highest score in sql.

About Nataraj

Designation
Senior Software Engineer at Ideas2IT Technologies

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C, Java 8, Python 3

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Detailed submission report

Multiple Choice Questions

Questions attempted: 9 of 9

#	Questions (9)	Result	Score (20/38)
1	In Java 8, which of the following statements about the *lambda expressions* are true: 1. It enables you to treat functionality as a method argument. 2. It allows you to write functions that do not belong to a class. 3. You should create a functional interface for calling a lambda expression. 4. Lambda expressions cannot have empty bodies. **Options** A. 1, 2, and 4	✓	4/4

B. 2 and 4

C. 1, 2, and 3

D. 1 and 3

2 What is the output of the following Java code: ✓ 4/4

```
class TestHack {
    int b = 0;
    int a  = b+2;
    public static void main(String[] args) {
        TestHack obj= new TestHack();
        System.out.println("a = " + obj.a + ", b = " + obj.b);
    }
}
```

Options

A. a = 0, b = 0

B. a = 2, b = 0

C. Compilation error

D. Run-time error

3 In Java, which of the following statements about the **Comparator Interface** is correct? ✗ 0/4

1. It must be implemented by all the elements in a SortedSet.
2. It defines a function that is used to compare two objects.
3. It can be used to design the custom-ordering scheme.
4. It is used to order the objects of user-defined classes.

Options

A. 1, 2, and 4

B. 2 and 4

C. 2, 3, and 4

D. 1 and 4

4 What is the output of the following Java code: ✓ 4/4

```
import java.util.*;

class HackerEarth
{
public static void main(String args[])
{
        LinkedList<Integer> list = new LinkedList<Integer>();
                list.add(-8);
                list.add(10);
                list.add(-20);
                list.add(null);
        Comparator<Integer> r = Collections.reverseOrder();
        Collections.sort(list, r);
        for(int i : list)
        System.out.print(i+ " ");
        System.out.println();
}
}
```

Options

A. -20 -8 10

B. 10 -8 -20

C. Compilation error

D. Runtime error

5 Which of the following statements about SQL is true? ⊗ 0/2

```
SQL > TRUNCATE TABLE STUDENT; OR SQL > DELETE FROM STUDENT;
```

1. Both the queries perform the same task
2. Both the queries work differently
3. We can rollback delete but cannot rollback truncate
4. We cannot rollback delete but can rollback truncate

Options

A. 1

B. 3

C. 1 and 3

D. 2 and 4

6 Which of the following commands is used to modify the structure of a table in SQL? ✓ 2/2

Options

A. MODIFY

B. ALTER

C. UPDATE

D. SET

7 Which of the following statements are correct about **bean scoping** in Spring MVC: ✓ 6/6

1. By default, all Spring beans are singleton in nature.
2. By setting a bean's **scope** attribute to **prototype**, **Spring** produces a new bean instance when required.
3. By setting a bean's **scope** attribute to **request**, a bean definition is scoped to an HTTP session.
4. By setting a bean's **scope** attribute to **session**, a bean definition is scoped to a single instance per Spring container.

Options

A. 1, 2, and 4

B. 1, 3, and 4

C. 1, 2, and 3

D. All of these

8 Which of the following Collection elements are available in Spring MVC? ⊗ 0/6

i. <list>

ii. <set>

iii. <map>
iv. <props>

Options

A. i, ii, and iii

B. i, ii, and iv

C. i, iii, and iv

D. i, ii, iii, and iv

9	Select the correct statements about *Spring JDBC Template*? i. It provides methods to write the query directly. ii. It does not automatically cleans up the resources. iii. It converts the standard JDBC SQLExceptions into RuntimeExceptions iv. It simplifies database access handling and eliminates the problems of JDBC API.	⊗	0/6

Options

A. i, ii, and iii

B. i, iii, and iv

C. i, ii, and iv

D. All of these

Programming Questions

Questions attempted: 2 of 2

#	Questions (2)	No. of attempts	Result	Score (20/40)
1	Prime Time	1	⏲	0/20

You are given two numbers L and R. You need to find the total number of lucky numbers present in between L and R (inclusive). A number is said to be lucky if the factors of that number are not repeated (power to the factors can only be 1). for example 2, 3, 5, 6 are Lucky numbers. while 4, 8, 9 are not.

Note: 1 is not a lucky number.

Example

Consider *L = 1*, *R = 3*. You must determine the count of lucky prime in range from1 to 3 inclusive.:

- 1 is not a lucky number as given in the question.
- 2 is also lucky number as prime factorization of 2 contains unique number.
- 3 is lucky number as prime factorization of 3 contains unique number.

so answer will be 2.

Function description

Complete the *solution* function provided in the editor. This function takes the following 2 parameters and returns the count of lucky prime in the given range:

- *L:* Represents the lower limit of the given range.
- *R:* Represents the upper limit of the given range.

Input format

Note: This is the input format that you must use to provide custom input (available above the **Compile and Test** button).

- The first line of the input contains an integer T, the number of test cases.
- Each test case is described by a line containing two space-separated integers L and R.

Output format

Print the answer for each test case in a new line.

Constraints

1<=T<=100000

1<=L<=5000000

1<=R<=5000000

L<=R

Code snippets (also called starter code/boilerplate code)

This question has code snippets for C, CPP, Java, and Python.

Score	Result	Time	Memory	Language	Submitted on	
0		10.0059 sec	83136 KB	Java 8	Mar 26, 2022 07:24 AM GMT	Details

2 Rearranging arrays 3 20/20

You are given an array of size N where N is even. Write a program to check if it is possible to rearrange the array such that the left half of the array is equal to the right half, that is, if $M = \frac{N}{2}$, then $a_1 = a_{M+1}$, $a_2 = a_{M+2}$, ... , $a_M = a_N$.

Note: N is even

Example

Consider *N = 4* and the array as *[2,2,3,3]*.Your task is to check if it is possible to rearrange the array such that the left half of the array is equal to the right half.

The array can be rearranged to *[3,2,3,2]*. Here the left half of the array is equal to the right half.

Therefore return YES.

Function description

Complete the solve function provided in the editor. This function takes the following 2 parameters and returns "*YES*" if it is possible to rearrange the array such that the left half of the array is equal to the right half otherwise "*NO*"

- *N*: Represents the number of elements in the array
- A: Represents the array that we have to rearrange and check the given condition.

Input format

Note: This is the input format that you must use to provide custom input (available above the Compile and Test button).

- The first line of each test case contains T denoting the number of test cases.
- The first line of each test case contains an integer N denoting the number of integers in the array.
- The second line of each test case contains N space-separated integers denoting the elements of the array.

Output format

Print **YES** or **NO** depending on the answer for each test case in a new line.

Constraints

$1 \leq T \leq 3$

$2 \leq N \leq 10^5$

$1 \leq A_i \leq 10^6$

Code snippets (also called starter code/boilerplate code)

This question has code snippets for C, CPP, Java, and Python.

Score	Result	Time	Memory	Language	Submitted on	
20 BEST		1.8898 sec	87576 KB	Java 8	Mar 26, 2022 06:55 AM GMT	Details

* - This information is based on the data that is available untill Mar 26, 2022 07:33 AM GMT. Your rank may be updated once all the candidates have successfully completed their tests.

Thank you for taking this test. All the best for further processes.

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