CDAC-Mumbai

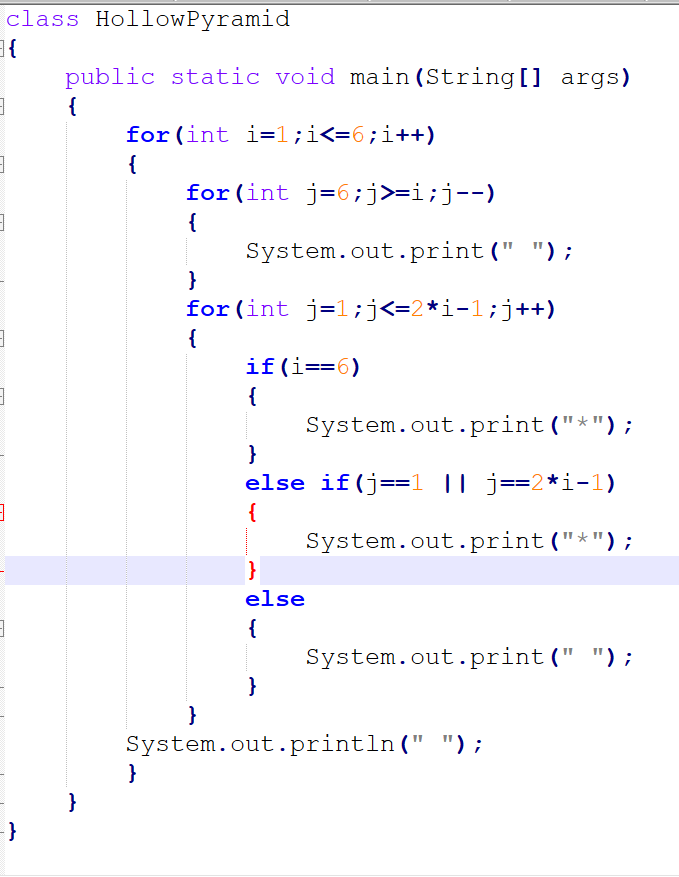
**Subject: Pattern Challenge in Java**

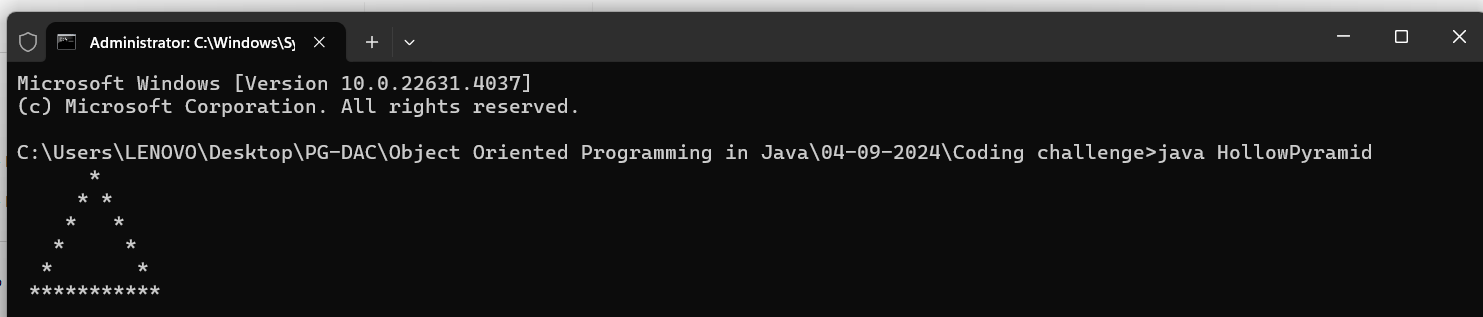
**Date: 04-09-2024 Total Marks:10**

**Time duration: 40 Min. Batch: August-24**

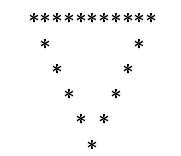
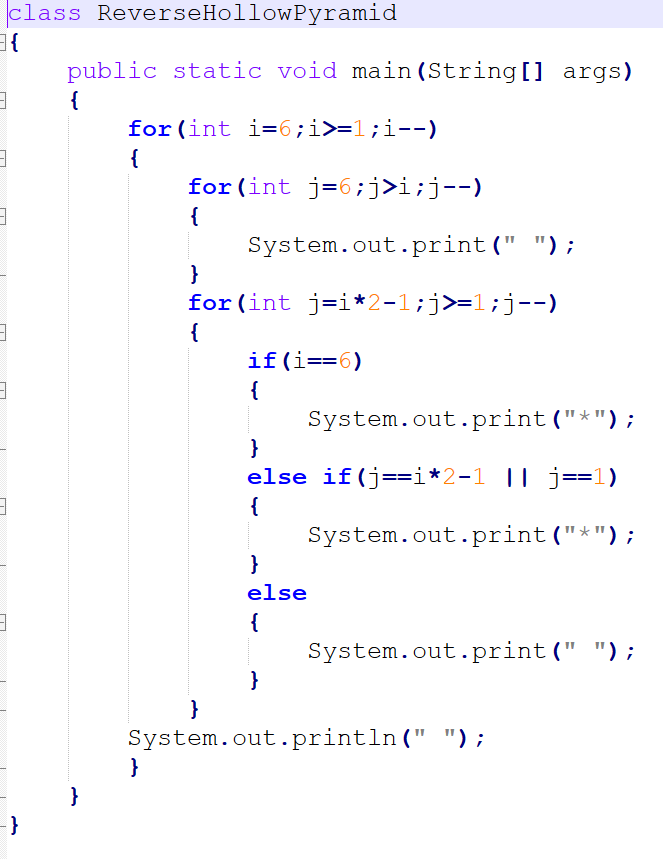
Q1. Write a Java program to print a hollow pyramid pattern using asterisks (\*) and spaces.

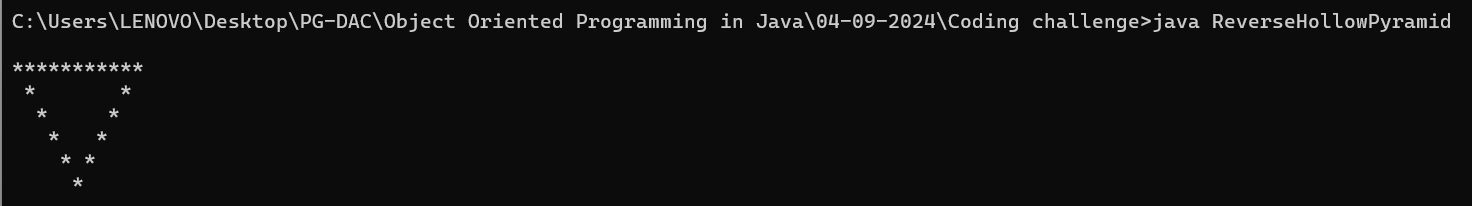






Q2. Write a Java program to print a hollow inverted pyramid pattern using asterisks (\*) and spaces.

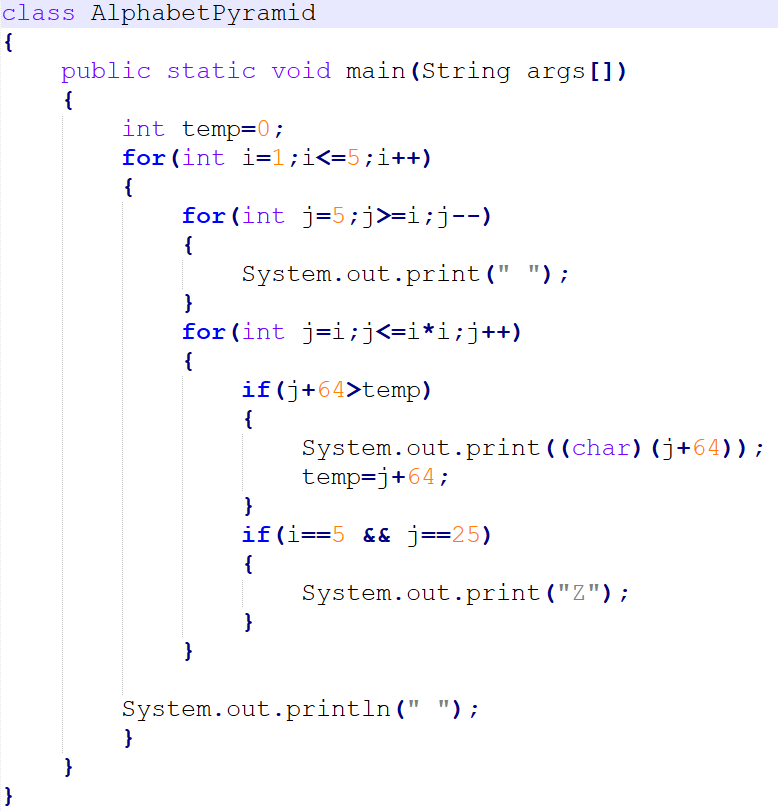


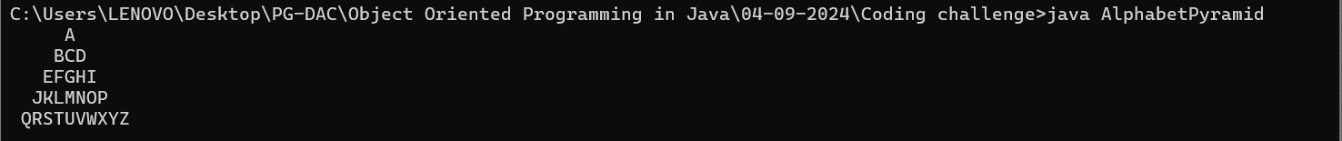


Q3. Write a Java program to print a pyramid pattern of alphabets, starting from 'A', using spaces.

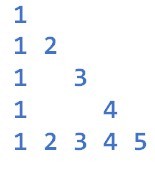
A BCD EFGHI

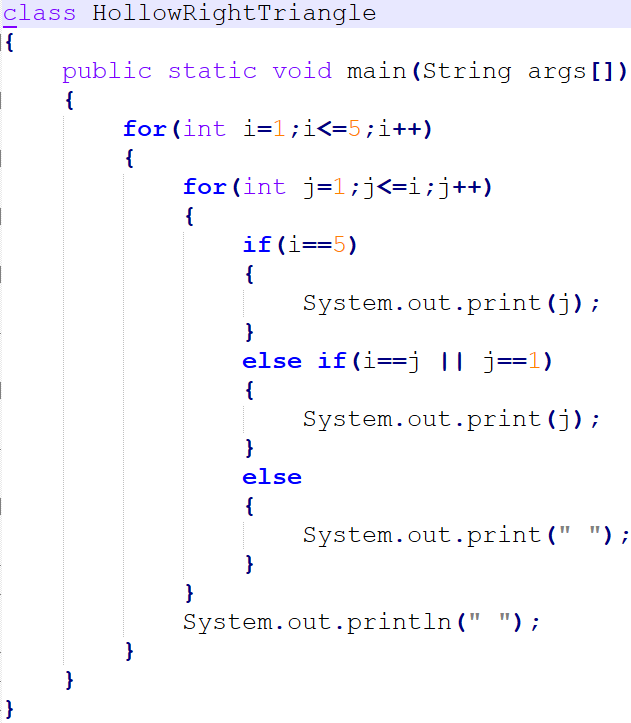
JKLMNOP QRSTUVWXYZ

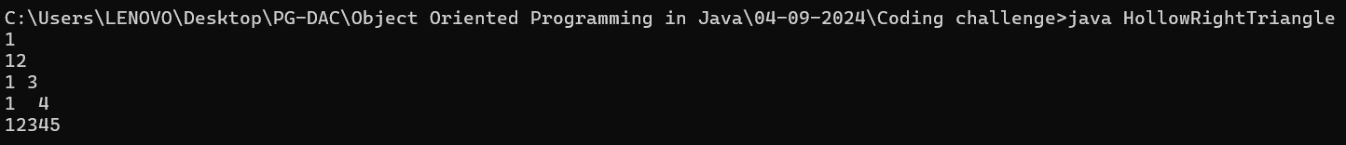




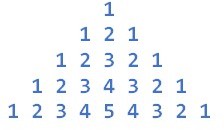
Q4. Write a Java program to print a hollow right triangle pattern using numbers and spaces.

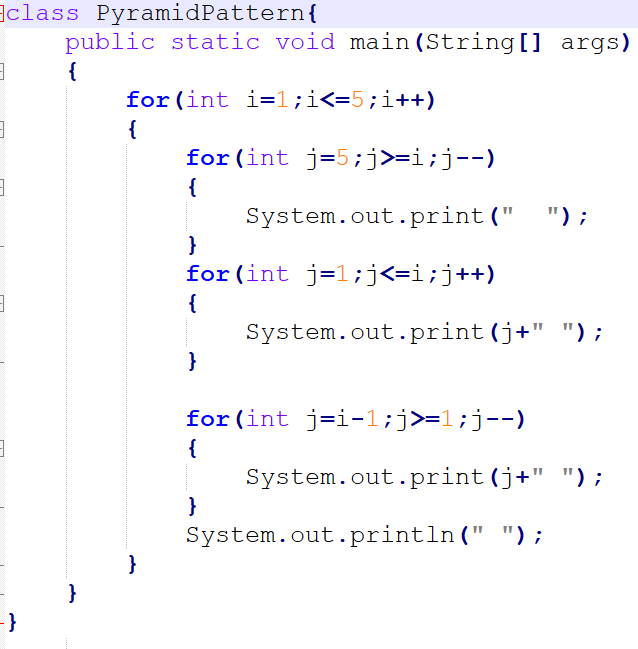


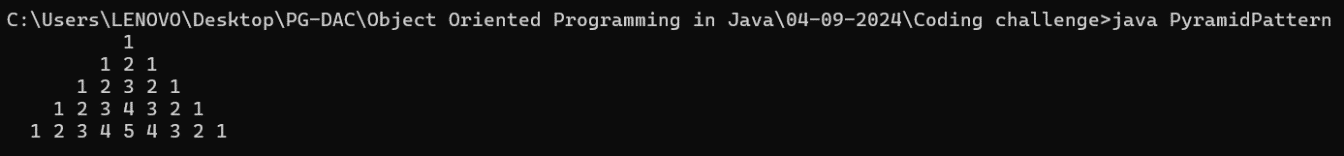




Q5. Write a Java program to print a Palindrome Number Pyramid.







Q6. Write a Java program to print a diamond pattern using numbers.

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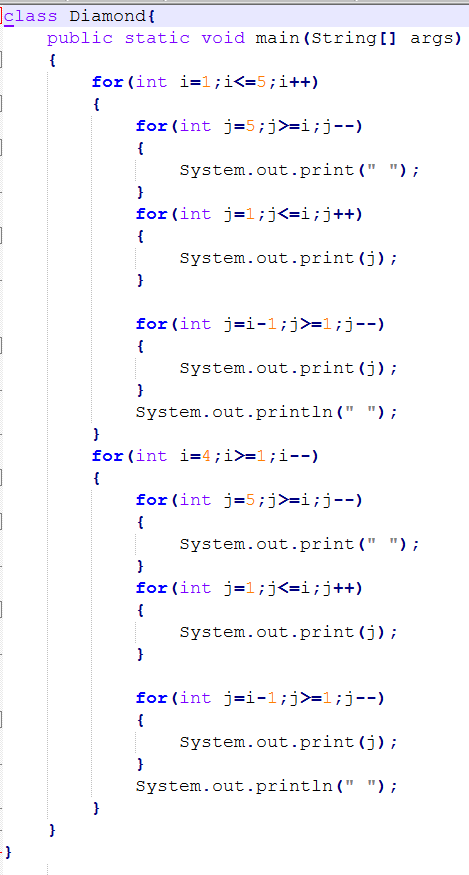
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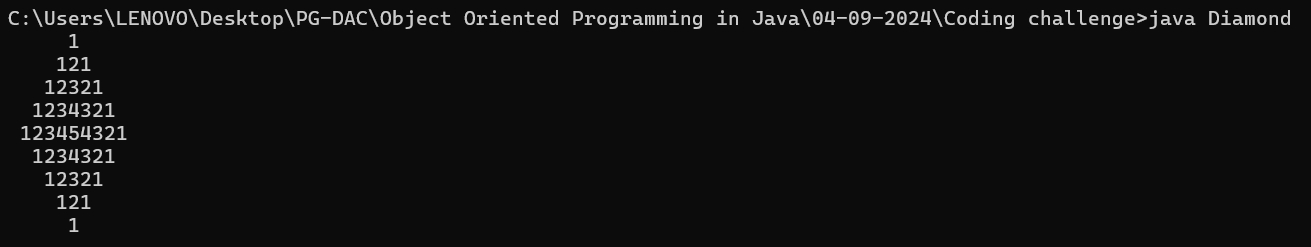
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12321

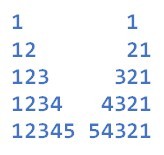
121

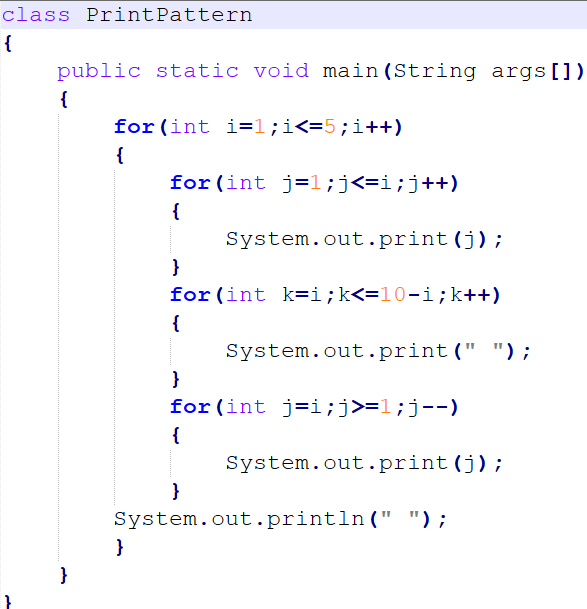
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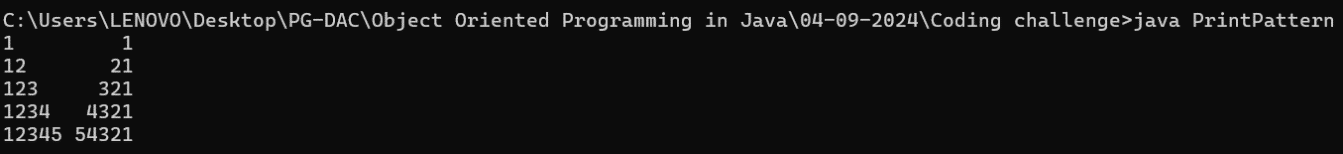




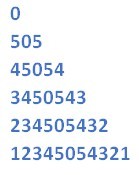
Q7. Write a Java program to print the following pattern using numbers.

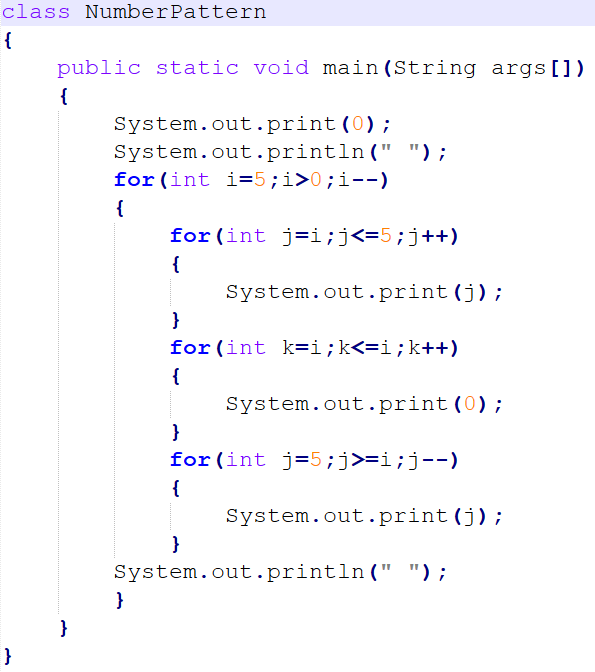


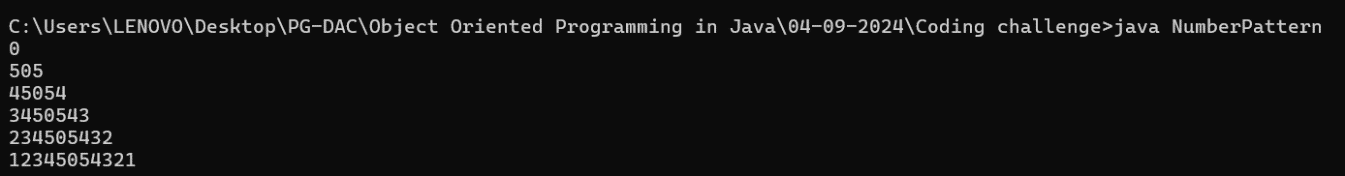




Q8. Write a Java program to print the following pattern using numbers.







Q9. Write a Java program to print the following pattern using numbers.

1 x 8 + 1 = 9

12 x 8 + 2 = 98

123 x 8 + 3 = 987

1234 x 8 + 4 = 9876

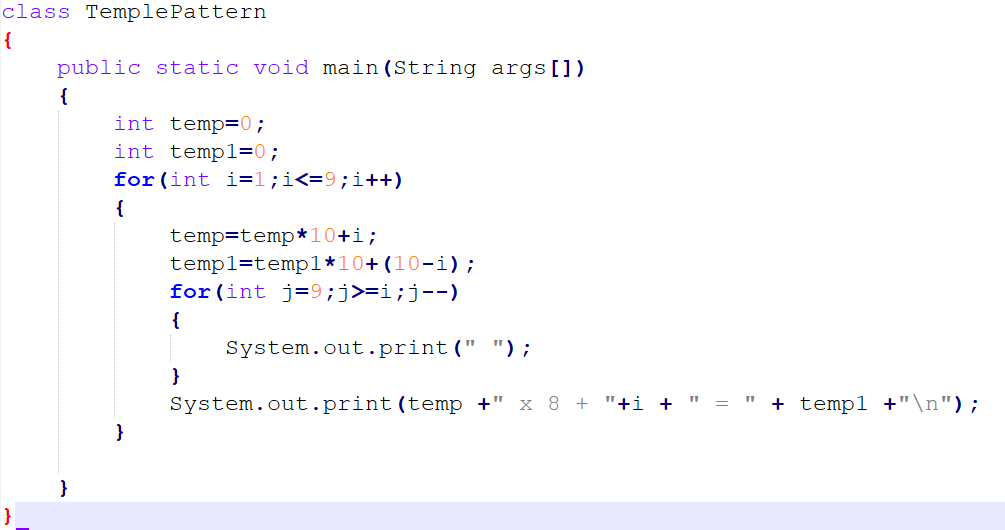
12345 x 8 + 5 = 98765

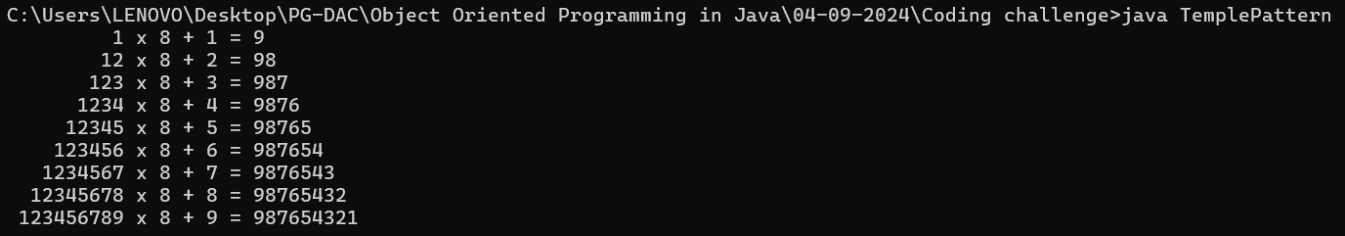
123456 x 8 + 6 = 987654

1234567 x 8 + 7 = 9876543

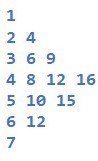
12345678 x 8 + 8 = 98765432

123456789 x 8 + 9 = 987654321





Q10. Write a Java program to print the following pattern using numbers.

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