Challenge - Rectangles 1 Hour

The Assignment

In this challenge you will write a Java program to print out rectangular shapes to the console. READ ALL INSTRUCTIONS. Don't forget the *Tips*. You may use your TRAINS for Reference. You may not use any other reference materials (NO GOOGLE, NO STACKOVERFLOW etc.). You have one hour. You have one hour.

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Rectangles

Write the class Rectangles in the file Rectangles.java. The main method of the Rectangles class must:

- 1. Take a non-zero positive integer as input from the user with the prompt "Please enter a width:"
- 2. Take another non-zero positive integer as input from the user with the prompt "Please enter a height:"
- 3. Print out a shape of symbols with the given width and height.

The rectangles should be made of:

- stars (*) if the shape has the same width and height (i.e it is a square)
- dollar signs (\$) if the rectangle is wider than it is tall.
- hash signs (#) if the rectangle is taller than it is wide.

Expected Output

Example 1: Equal width and height

```
Please enter a width:
3
Please enter a height
3
***
***
```

Example 2: Height is greater than width

```
Please enter a width: 3
Please enter a height 4
###
###
###
###
```

Example 3: Width is greater than height

Submitting to the Autograder

- 1. To be successful, your output must match the Autograder's expectations exactly.
- 2. Make sure that your program compiles and runs without any errors before running it through the autograder.
- 3. Create a zip file containing the Rectangles.java only.
- 4. Upload the zip file to Athena.

Tips

- You can use Scanner.nextInt() to get integer input from the user.
- You can use the System.out.print method to print a string or character without a terminating newline character.
- Remember that your class names needs to be exactly the same as the name of the files in which they were defined.
- Make sure that all of your input and output exactly matches the strings shown in the examples.
- Do not include any package declarations in your submission file