

AP Computer Science Mr Hanley

[The Hood](#)

Castle Stairs

Ver: 3.111111119

Last Updated: **1/13/2022 10:00 PM**



That's Blarney
Castle: Home of
"Kissing the Blarney
Stone"

Assignment 3: Castle Stairs



Binary



Ones Comp



Twos Comp



Create a java program that allows the user to input a number from 1-100
Print a scalable staircase as follows;

Size: 1

```
+----+
|    |
+----+
```

Size: 2

```
      +----+
      |    |
+---+---+
|    |    |
+---+---+
+---+---+
+---+---+
```

Size: 4

```
                +----+
                |    |
              +---+---+
              |    |    |
            +---+---+---+
            |    |    |    |
+---+---+---+---+
|    |    |    |    |
+---+---+---+---+
```

Bonus: Allow the user to type in a phrase and put the phrase in the boxes.
If you run out of letters just print spaces. If you have too many letters, just stop the message.

Bonus 2: Try to make the “stadium” as seen below:

Do NOT use 100 if statements!!!!!!!!!!!!!!
Use loops and look for patterns

Please type in size stairway 1.0<= YOUR INPUT <=200.0 :7

What phrase do you want?(spaces are cool)

Trust the process!!

Hit enter to repeat the message, any other key to use message once
p

```

                +----+
                |  T  |
            +----+----+
                | r | u |
            +---+---+---+
                | s | t |   |
            +---+---+---+---+
                | t | h | e |   |
            +---+---+---+---+---+
                | p | r | o | c | e |
            +---+---+---+---+---+
                | s | s | ! | ! |   |
+---+---+---+---+---+---+---+
|   |   |   |   |   |   |   |
+---+---+---+---+---+---+---+
```

3



Please type in size 1.0<= YOUR INPUT <=200.0 :7

```

+---+
|   |                               +---+
+---+---+                         +---+---+
|   |   |                           |   |   |
+---+---+---+                     +---+---+---+
|   |   |   |                       |   |   |   |
+---+---+---+---+                 +---+---+---+---+
|   |   |   |   |                   |   |   |   |   |
+---+---+---+---+---+             +---+---+---+---+---+
|   |   |   |   |   |               |   |   |   |   |   |
+---+---+---+---+---+---+       +---+---+---+---+---+---+
|   |   |   |   |   |   |           |   |   |   |   |   |   |
+---+---+---+---+---+---+---+   +---+---+---+---+---+---+
|   |   |   |   |   |   |   |       |   |   |   |   |   |   |
+---+---+---+---+---+---+---+---+ +---+---+---+---+---+---+
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
+---+---+---+---+---+---+---+---+---+---+---+---+---+

```

Project Name	Assign3_CastleStairs
Class 1 Name	CastleMain

 <h1 style="text-align: center; color: red;">RUBRIC</h1> 	
Works for all values 1-100	40
Good comments	10
Bonus Message	5
Bonus Stadium	5
TOTAL	50

