

AP Computer Science



mr Hanley

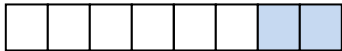


Assignment 3/11₂/3₈/3₁₆ Version: 2.0

Last Updated: 9/19/2019 9:46 AM

Stairway to Heaven

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

```

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

```

Rubric	
Works for all values 1-100	40
Good comments	10
Bonus Message	5
Bonus Stadium	5
TOTAL	50