**isEquilateral(int x, int y, int z)**

*Valid Classes*

1. x >=1, y >=1, z >= 1; x < y + z; y < x + z; z < y + x

*Invalid Classes*

1. x < 1, y, z; x < y + z
2. x < 1, y, z; y < x + z
3. x < 1, y, z; z < y + x
4. x, y < 1, z; x < y + z
5. x, y < 1, z; y < x + z
6. x, y < 1, z; z < y + x
7. x, y, z < 1; x < y + z
8. x, y, z < 1; y < x + z
9. x, y, z < 1; z < y + x

*Boundary Cases*

1. x = 0, 1 ,2, y
2. >= 1, z >= 1
3. y = 0, 1, 2, x >= 1, z >= 1
4. z = 0, 1, 2, x >= 1, y >= 1

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| **Equivalence Class or Boundary Case** | **Sample Input Values** | **Expected Result** |
| Valid 1: x >=1, y >=1, z >= 1; x < y + z; y < x + z; z < y + x | 5, 2, 4 | True |
| Invalid 4: x, y < 1, z; x < y + z | 1, 0, 2 | IllegalArgumentException |
| Invalid 7: x, y, z < 1; x < y + z | 1, 3, -1 | IllegalArgumentException |
| Boundary 1: x = 0, 1 ,2, y >= 1, z >= 1 | 0, 2, 2  1, 2, 2  2, 2, 2 | IllegalArgumentException  False  True |
| Boundary 2: z = 0, 1, 2, x >= 1, y >= 1 | 2, 2, 0  2, 2, 1  2, 2, 2 | IllegalArgumentException  False  True |

**isPasswordValid(String password)**

*Valid Classes*

1. 8 < size < 20; contains digit, uppercase letter, lowercase letter, and special character

*Invalid Classes*

1. 8 < size < 20; does not contain digit, may or may not contain uppercase letter, lowercase letter, and special character
2. 8 < size < 20; does not contain uppercase letter, may or may not contain digit, lowercase letter, and special character
3. 8 < size < 20; does not contain lowercase letter, may or may not contain digit, uppercase letter, and special character
4. 8 < size < 20; does not contain special character, may or may not contain digit, uppercase letter, and lowercase letter
5. size < 8; contains all required characters
6. size > 20; contains all required characters

*Boundary Cases*

1. size = 7, 8, 9; contains all required characters
2. size = 19, 20, 21; contains all required characters

|  |  |  |
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| **Equivalence Class or Boundary Case** | **Sample Input Values** | **Expected Result** |
| Valid 1: 8 < size < 20; contains digit, uppercase letter, lowercase letter, and special character | validPass1! | True |
| Invalid 2: 8 < size < 20; does not contain uppercase letter, may or may not contain digit, lowercase letter, and special character | notval1d! | False |
| Invalid 5: size < 8; contains all required characters | nOp3! | False |
| Boundary 1: size = 7, 8, 9; contains all required characters | Nuh!uh0  F1nally!  TotVal1d! | False  True  True |
| Boundary 2: size = 19, 20, 21; contains all required characters | ThisOneisOkay$$1819  Th1s1sJustRight!1920  This1sway!toolong2021 | True  True  False |