## void generateWorld()

## Java

```
public static void generateWorld() {
    Random rand = new Random();
    for (int y = 0; y < worldHeight; y++) {
        for (int x = 0; x < worldWidth; x++) {
             int randValue = rand.nextInt(100);
             if (randValue < 17) {</pre>
                 world[x][y] = WOOD;
             } else if (randValue < 30) {</pre>
                 world[x][y] = LEAVES;
             } else if (randValue < 45) {
                 world[x][y] = STONE;
             } else if (randValue < 57) {</pre>
                 world[x][y] = COAL_ORE;
             } else if (randValue < 65) {</pre>
                 world[x][y] = IRON_ORE;
             } else if (randValue < 70) {</pre>
                 world[x][y] = EMERALD_ORE;
             } else {
                 world[x][y] = AIR;
        }
    }
}
```

## Pseudocode

```
BEGIN
FOR `<Integer> y` = 0; `<Integer> y` < `<Integer> worldHeight`
    FOR `<Integer> x` = 0; `<Integer> x` < `<Integer> worldWidth`
        Assign `<Integer> randValue` = `random value between 0 and 99`;
        IF `<Integer> randValue` < 17</pre>
            Set `<two dimensional Integer array> world @ indexes <Integer>
x, <Integer> y` = `<Integer> wood`;
        ELSE IF `<Integer> randValue` < 30</pre>
            Set `<two dimensional Integer array> world @ indexes <Integer>
x, <Integer> y` = `<Integer> leaves`;
        ELSE IF `<Integer> randValue` < 45
            Set `<two dimensional Integer array> world @ indexes <Integer>
x, <Integer> y` = `<Integer> stone`;
        ELSE IF `<Integer> randValue` < 57</pre>
            Set `<two dimensional Integer array> world @ indexes <Integer>
x, <Integer> y` = `<Integer> coal ore`;
        ELSE IF `<Integer> randValue` < 65</pre>
            Set `<two dimensional Integer array> world @ indexes <Integer>
x, <Integer> y` = `<Integer> iron ore`;
        ELSE IF `<Integer> randValue` < 70
            Set `<two dimensional Integer array> world @ indexes <Integer>
x, <Integer> y` = `<Integer> emerald ore`;
        ELSE
            Set `<two dimensional Integer array> world @ indexes <Integer>
x, <Integer> y = `<Integer> air`;
        Set \leq Integer> \times += 1;
    Set `<Integer> y` += 1;
END
```

## Flowchart

