Write an algorithm that takes 9 random digits, and returns the occurrence of each unique digit.

**Answer**

Step 1. Start

Step 2. Declare variables: **value**, **value\_str,** **value\_arr**, **and counter**.

Step 3. Initialize **counter** to empty object

Step 4. Read variable: **value.**

Step 5. Convert **value** to string and store in **value\_str**.

Step 6. If **length of value\_str** is equal to 9

6.1. Spilt **value\_str** and store in **value\_arr**.

6.2. Initialize variable **Index** to 0.

6.3. Loop through the **length of value\_arr** until **index** < **length of value\_arr.**

6.4. Increment **index** by 1.

6.5. Declare variable **element**.

6.6. Find indexing of **value\_arr** with **index** and assign result to **element** ->

**value\_arr[index].**

6.7. If **not element** in **counter**.

Assign **counter** indexing of **element** to 1 -> **counter[element] to 1**

Else

Assign **counter** indexing of **element** to 1 and increment by 1

-> **counter[element] to counter[element] sum 1**

EndIf.

6.8. End loop.

6.9. Return **counter**.

Else

Return false

EndIf.

Step 7. Stop

Link to the program in js: <https://repl.it/@Adisco4420/findOccurances>