Frequency Pattern

*** THIS SHOULD BE SOLVED USING DICTIONARIES! YOU MAY NOT CHECK IF THE ARRAYS ARE EQUAL. THIS METHOD *DOES* WORK IN PYTHON, BUT NOT IN JAVASCRIPT. THE EXERCISE IS TO PRACTICE USING DICTIONARIES AND FREQUENCY PATTERNS ***

Exercise #1

Problem: Given two lists of numbers, write a function to find out if two lists have the same frequency of digits.

Examples

```
a = [1,2,3,4]
b = [1,4,5,6]
c = [1,4,4,2]
d = [1,4,3,2]
e = [1,2,3,4,5]

some_function(a, a)  **prints True**
some_function(a, b)  **prints False**
some_function(a, c)  **prints False**
some_function(a, d)  **prints True**
some_function(e, a)  **prints False**
```

Exercise #2

Problem: Given two Lists write a function to determine if each value in our first List contains a corrsponding value to the second power in the second List.

Examples

```
a = [1,2,3,4]
b = [1,4,9,16]
c = [1,4,5,6]
d = [1,4,4,2]
e = [1,16,9,4]
f = [1,2,3,4,5]

some_function(a, b)  ** prints True  **
some_function(a, c)  ** prints False **
some_function(a, d)  ** prints False **
some_function(a, e)  ** prints True  **
some_function(f, a)  ** prints False **
```

Exercise #3

Problem: Create a function that accepts two strings and checks if they are valid anagrams.

Examples

```
a = "pie"
b = "eip"
c = "pies"                              2 / 2
d = "pwe"

some_function(a,a) ** prints True  **
some_function(a,b) ** prints True  **
some_function(a,c) ** prints False **
some_function(a,d) ** prints false **
```

Exercise #4

Problem: Given a string return the letter that is used the most in the string.

Examples

```
a = "hello"
b = "sprinkle slurps"
c = "car cat cuts crinckles"

some_function(a) ** prints l **
some_function(b) ** prints s **
some_function(c) ** prints c **
```