The Algorithm Design Canvas

Problem name: Valid Anagram

HIRED IN TECH

Constraints

1. Two Strings (s, t).
2. return true if t is anagram of s; false otherwise.
3. (string, string) --> bool
4. Are all characters small? if not, how should I treat them?

Ideas

1. return false if lengths do not match 2. Store one string in HashMap<char, int> (O(n)) and search it using other string (O(n)). 3. Decrease it each time it is fetched and if it returns 0 then fn returns false.	O(2n) O(n)
1. return false if lengths do not match 2. Use Character Based Operation DS (convert char to int). 3. Store (s) chars as index and store their frequencies. 4. Same for t but subtract frequencies and return false if f < 0 5. Return false freq > 0	O(3n) but faster O(n)

Test Cases

```
assert v.isAnagram("anagram", "nagaram");
assert !v.isAnagram("rat", "car");
assert !v.isAnagram("aacc", "ccac");
```

Code