Problem: Reorganize String

biven a string s, rearrange the characters s such that no adjacent characters are the same.

Input: "aaab" Input: "abbcaa"

Output: "ababac"

map = 'a': 3 , 'b': 1 , 'c': 1 'a' 'b' 'c' vector = [3, 1, 1, 0, ...]

Output: "ababac"

We need to find the characters w/ the most > least quantity

Ea.] if there are 5 'a's then we MUST have a string len of "5×5×5×5×5" 9

When constructing string offset next character by L starting (a) i=0. When i exceeds size of string set i=1 and continue.

- 1) Count each occurrence of a particular character
- d.) Place each count and respective character in an ordered data stucture (ordered where count orders, not character)
- 3.) Enumerate items from step 2,

c = current char

n = count of c occurrences

itr = 0

for i=0=7 n

scitr3 = c

itr += 1

if itr 7= s.size()=7 itr=1

4) Check if any adjacent characters are still equal.

If yes, return empty string

Otherwise, return modified s.

```
struct Count 4
   char letter;
    int count;
3;
book operator & (const Count & lhs, const Count & rhs) &
     return lhs. count < rhs. count;
std:: string reorganize String (std:: string s) {
       std:: mordered_map< char, int 7 m;
       for ( auto c: 5) {
           m[c] += 1;
       std:: priority-queue < (ount 7 pg;
       for ( const auto [ letter, count ]: m) {
            pg. push ( { letter, count });
       auto itr { s. begin 1) };
       while (!pg. emptyl)) {
          auto top { pg. top() };
          Py. popl);
           for (int i=0; ic top.count; ++i) &
              *itr = top. letter;
              itr += d;
           if (itr >= s.end()) itr = s. begin() + 1;
```

```
for ( int i = 0; i < &. size()-1; ++i) {

if ( & Li] == & Li+1]) {

return {};

}

return &;
```