## 451. Sort Characters by Frequency

Given a string s, sort in decreasing order based on the frequency of characters. Frequency is the number of times it occurs in a string.

Return the sorted string. If multiple answers, return any valid string.

## Ex. 4

Input: s= "tree"

Output: "eert" or "eetr"

## Process:

- 1. Use a hash map to count occurrence of each unique character.
- When an ordered multimap on map in step 1 to flip key and value.
- 3) Iterate over each Key value in nultimap, appending value \*key to end of result string.
- 4) Result string contents is answer.

```
std:: string frequency Sort (const std:: string ( &) {

std:: unordered-map c char, int 7 m;

for (const auto c: &) {

n[c] += 1;

std:: multimap c int, char 7 m1;

for (const auto ( [key, value]: m) {

n1. instert ( { value, key } );
}
```

```
std:: string result;

for (const auto { [Key, value]: m1) {

result += std:: string (Key, value);

}

return result;
```