Sort Array by Increasing Frequency

- nums = [1,1,2,2,2,3]

 We have to sort these Elements According to their Frequencies

 1 -> 2

 2 -> 3

 It means, We have to do something Like,

 3 -> 1

 We Have to store the Numbers with their Frequencies
- For this, We have Data structure -> unordered_map Let's say unordered_map<int, int > umap;

Ans: 3 11 222

- Sort Array by Increasing Frequency
- nums = [2,3,1,3,2]

Ans: 1 33 22

2 -> 2

3 -> 2

1 -> 1

- Lambda Function in c++
- [&] (int a , int b) { return Expression }
 [&] (parameters) { return Expression }

It's using a lambda function during sort. The lambda function specifies how to sort:

- 1. if the two numbers have different frequencies, the one with smaller frequency goes first.
- 2. Otherwise, the one that is lexicographically greater goes first.

- Lambda Function in c++
- [&] (int a , int b) { return Expression }
 [&] (parameters) { return Expression }

```
class Solution {
public:
   vector<int> frequencySort(vector<int>& nums) {
       unordered_map<int,int>umap;
        for(auto x: nums)
            umap[x]++;
        sort(nums.begin(), nums.end(), [&](int a, int b) -> bool {
            return (umap[a] != umap[b] ? umap[a] < umap[b] : a > b);
       });
        return nums;
```

Hello would