Problem:

biven an array of n integers where each integer in array is in the range [1...n] inclusive.

## boal:

Return all integers between [1...n] that do not exist in input array.

## Approach #1

- 1. Sort the array
- 3.) Return array.

## Approach #1

- 1) Create array of size 1, populate each iten 1...
- LI Enumerate over all values in input array.

  Each value -1 is the index of array in step 1.

  Set the array [value 1] to -1
- 3.1 Erase all values that equal -1
- 4) Values left over are all numbers that do not exist in input array.

```
std:: vector < int > find Disappeared Numbers (const std:: vector cint > input) {

std:: vector cint > result (input. size(1));

std:: iota (result. begin(), result.end(), 1);

for (auto num: input) {

result [num-1] = -1; // assuming All values [1...n]

result. erase (std:: remove (result. begin(), result.end, -1), result.end();

return result;
```