```
Given two string arrays wordl and word2, return true if the two arrays represent the same string, and false otherwise.

A string is represented by an array if the array elements concatenated in order forms the string.

Input: wordl = ["ab", "c"], word2 = ["a", "bc"]

Output: true

Input: wordl = ["a", "cb"], word2 = ["ab", "c"]

Output: false
```

```
["ab","c"], ["a","bc"]
s1=abc s2=
bool areStringsEqual(vector<string>word1, vector<string>word2){
String s1="", s2
="":
for(int i=0;i<word1.size();i++){</pre>
s1+=word1[i];
}
for(int i=0;i<word2.size();i++){</pre>
s2+=word2[i];
}
if(s1==s2){
return true;
}
return false;
}
```

You are given an integer array height of length n. There are n vertical lines drawn such that the two endpoints of the ith line are (i, 0) and (i, height[i]).

Find two lines that together with the x-axis form a container, such that the container contains the most water.

```
Input: height = [1,8,6,2,5,4,8,3,7]
Output: 49
```

```
[1,8,6,2,5,
area=width*height
Max area
6,5
height=min(leftHeight,RightHeight)
width=right-left
Int maxArea(int[] height){
Int left=0; //indexes
Int right=height.length-1;
Int maxArea=0;
while(left<right){
Int width=right-left;
Int h=Math.min(height[left],height[right]);
Int area=h*width;
maxArea=Math.max(area,maxArea);
if(height[left]<height[right]){</pre>
left++;
Else if(height[left]>height[right]){
Right-;
}
Else{
Left++;
Right-;
}
Return maxArea;
}
Time comp- O(N)
space-O(1)
```

```
12345
arr=[1,1,1,2,3,3,4,4,5]
arr[i]!=arr[i-1]
Write a program to print unique numbers by removing duplicates from the array
[1,2,3,4,5]
nums[6]={0
Nums[1]=1
Void uniqueNumbers(int arr[]){
Int n=arr.length;
Int maxElement=arr[n-1];
Int nums[maxElement+1]={0}; //takes care of count
for(int i=0;i< n;i++)
{
       Nums[arr[i]]++;
//nums=[0,3,1,2,2,1]
for(int i=0;i<maxElement+1;i++){</pre>
if(nums[i]>0){
cout<<i<" ";
}
}
12
[1,1,3,6,6,7]
1367
nums=[0,2,0,1,0,0,2,1]
1367
```

```
1 -> 2 -> 3 -> 4 -> 5 -> 6 -> null 1->2-null
2-> 1->4->3->6->5->null
ListNode* reverseInGroups(ListNode* head){
if(!head || head->next){
Return head; 1->2
2->null
}
prev=1, current=2, next=3 count=0
ListNode* Prev = null
ListNode* Current = head
ListNode* Next = null
Int count=0
while(current!=null && count<2){
Next=curent->next;
current->next=prev;
prev=current; //1
current=Next; 2
Count++; 1
}
if(Next!=NULL){
head->next=reverseInGroups(Next);
}
Return prev;
}
```

```
finding two numbers in an array that add up to a specific target sum. int[] nums = {2, 7, 11, 15}; int
target = 9;
output={2,7}
i=0
j=i+1 1
{2, 7, 11, 15}
i=1
Мр:
2->0
Target-arr[i]
vector<int> twoSum(vector<int>& nums, int target){
unordered_map<int,int>mp;
for(int i=0;i<nums.size();i++){</pre>
if(mp.find(target-nums[i])==mp.end()){
mp[nums[i]]=i;
}
return {nums[mp[target-nums[i]]], nums[i]}; //nums[mp[2]]=nums=[0]
}
return {-1,-1};
```

```
find the first non-repeating character and return its index. If it doesn't exist, return -1 String input =
"ababc"
a->2 b->2 c->1
ans=c
i=4 index=-1 n=5
mpp[b]=1
"ababc"
mpp[c]
char firstUniqueCharacter(string s){
int index=-1;
int n=s.length();
map<char,int>mpp;
for(int i=0;i< n;i++){
mpp[s[i]]++;
i=0
for(int i=0;i< n;i++){
if(mpp[s[i]]>1){
continue;
}
else{
return s[i];
return '-1;;
   1. getEmployee
   2. getAllEmployees
   3. updateEmployee
   4. deleteEmployee
Class EmployeeController{
@Autowired
Private EmployeeService empService;
@GetMapping
Public List<Employee> getAllEmployees(){
Return empService.getAllEmployees();
```

```
@GetMapping("/{id}")
Public ResponseEntity<Employee> getEmployeeById(@PathVariable Long id){
Return empService.getEmployeeByld(id).map(employee -> new
ResponseEntity<>(employee,HttpStatus.OK))
}
Abs
Abstract Class Shape{
Public abstract void draw();
Public void commMethod(){
System.out.println("Hello i am abstract");
}
Interface
Interface Drawable{
Void draw();
Default void commMethod(){
System.out.println("Hello i am interface");
Order fk as customerId
Customer pk customerId
Select Order.customerId As order_id, Customer.customerId AS customer_id
FROM Order
INNER JOIN Customer ON Order.customer_id=Customer.customer_id;
String input = "Hello World" output = "dlrow olleh"
Void reverseString(string input){
Int start=0,end=input.length()-1;
while(start<end){
Char temp = input[start];
input[start=input[end];
```

```
input[end]=temp;
Start++;
End- -;;
}
```