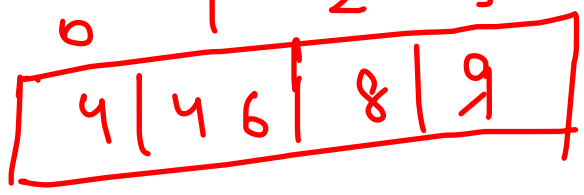
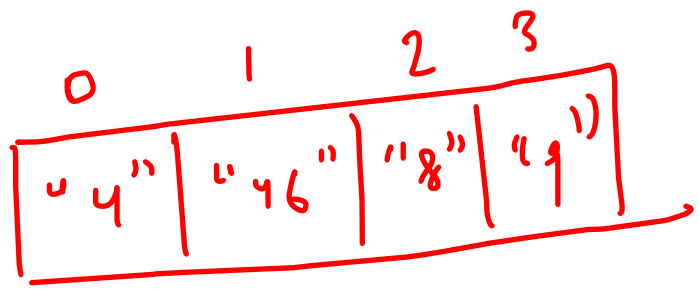
n = 4

arr = (int)



→ 9846

arr = (String)



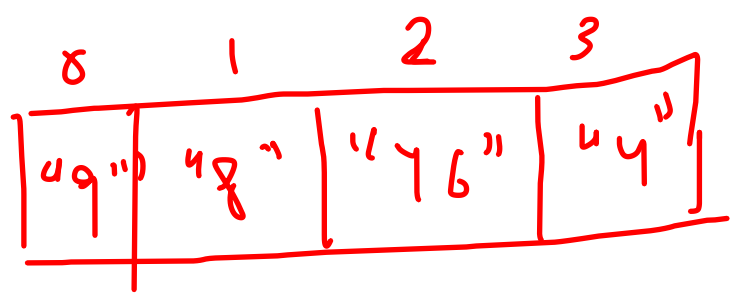
a + b ("446") // lambda func.

a = "4"

b = "46"

b + a ("464")

arr = (String)



ans = " "

Convert int to string

1) String str = String.valueOf(arr); ✓

2) String str = Integer.toString(arr); ✓

a-b = } +ve → Ving
b-a = } -ve → Ting

str1 = - - -

str2 = - - -

return str1.compareTo(str2); // ↑ing

return str2.compareTo(str1); // ↓ing

arr = (String)

0	1	2	3
"9"	"8"	"4"	"4"

ans = "" + 9 = "9"

ans = "9" + "8" = "98"

"98" + "4" = "984"

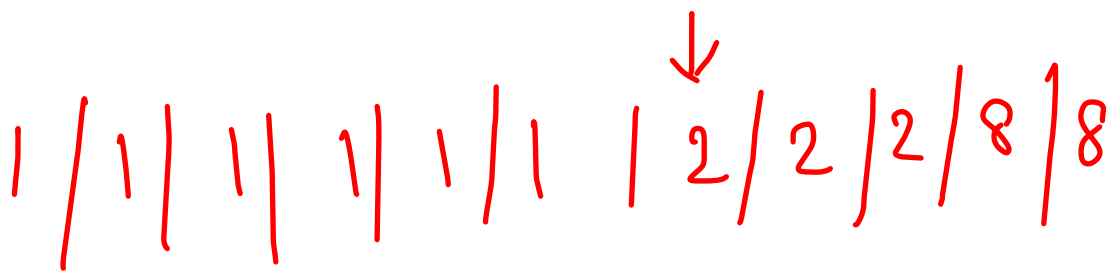
"984" + "4"

=> "9844"

```
        // array ip

        Syso(largest(arr,n));
    }
    public static String largest(int arr[], int n){
         String arr1[] = new String[n];
        for(int i = 0; i < n; i++){
            arr1[i] = Integer.toString(arr[i]);
        }

        // lambda function

        Arrays.sort(arr1, (a,b) ->{
            String str1 = a+b;
            String str2 = b+a;
            return str2.compareTo(str1);
        });

        //convert string arr to string
        String ans = "";
        for(int i = 0; i < n; i++){
            ans = ans + arr1[i];
        }
        return ans;
    }
```

HW_Majority Element 10

```
11
1 2 2 2 8 8 1 1 1 1 1
0 1 2 3 4 5 6 7 8 9 10
```



curr = 1
count = 1
majelem = 1
found = f

(n+1)/2

i = 1

if arr[i] = curr
1 == 1
count++

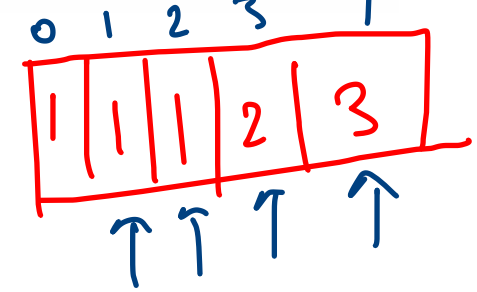
else
if (count > (n+1)/2)
maj = curr
found = true

curr = arr[i]
count = 1;

```java
Arrays.sort(arr);

int threshold = (n+1)/2;

int currElem = arr[0];
int count = 1;
int majoElem = arr[0];
boolean found = false;

for(int i = 1; i < n; i++){
    if(arr[i] == currElem){
        count++;
    }
    else{
        if(count >= threshold){
            // checking the greater elem
           // if(!found || currElem > majoElem){
            majoElem = currElem;
            found = true;
      //  }
        }
        currElem = arr[i];
        count = 1;
    }
}
    }
    // check for the last index
    if(count >= threshold){
                // checking the greater elem
               if(!found || currElem > majoElem){
               majoElem = currElem;
               found = true;
               }
          }
    // print the result
    if(found){
        System.out.println(majoElem);
    }
    else{
        System.out.println("NO MAJORITY ELEMENT");
    }
}
```

n = 5

arr = | 1 | 1 | 2 | 1 | 3 |



curr = 1	T 1==1	2==1 F	arr[3]==2
count = 1	c = ~~2~~ 3 1==1	curr = 2	curr = 3
maj = 1	3 ≥ 3 T	c = 1	c = 1
found = f	maj = 1 ✓		
	f = t		

o/p → 1