# Advanced Problem Solving: Arrays and Objects

## Assignment Solutions



Relevel
by Unacademy

# Assignment Solutions

**1. Find the first element having a maximum frequency in a string "unacademy"**

**Solution:**

```
function countOccurence( ch, s)
 {
  if (s.length == 0)
   return 0;
  var count = 0;

  if (s[0] == ch)
   count++;

  count += countOccurence(ch, s.substring(1));

  return count;
 }

  let str="unacademy";
  let count=-1;
  let mostFrequentElement= str[0];
  let FrequencyOfElement = countOccurence(mostFrequentElement,str);
  for(let i=1;i<str.length;i++){
       count = countOccurence(str[i],str);
       if(count>FrequencyOfElement){
           mostFrequentElement= str[i];
            FrequencyOfElement = count;
       }
  }

  console.log(mostFrequentElement,FrequencyOfElement);
```

**Output:**

"a", 2

To run the code live and test click here.

**2. Write a program to rearrange the elements such like positive numbers shift to the end and negative numbers to the start.**

**Solution:**

```
function rearrange(arr, left, right)
{

 while (left <= right)
 {
  if (arr[left] > 0 && arr[right] > 0)
   right -= 1;

  else if(arr[left] > 0 && arr[right] < 0)
  {
   let temp = arr[left];
   arr[left] = arr[right];
   arr[right] = temp;
   left += 1;
   right -= 1;
  }

  else if (arr[left] < 0 && arr[right] < 0)
   left += 1;
  else
  {
   left += 1;
   right -= 1;
  }
 }
}

function printArray(arr, right)
{

 for(let i = 0; i < right; i++)
  console.log(arr[i] + " ");
}

let arr = [-5, 3, -4, 88, -9, -10, 21, 5, 6,-33];
let size = arr.length;

rearrange(arr, 0, size - 1);
printArray(arr, size);
```

**Output:**

"-5 "
"-33 "
"-4 "
"-10 "
"-9 "
"88 "
"21 "
"5 "
"6 "
"3 "

To run the code live and test click here.