



Experiment1.4

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Subject Name: Competitive Coding Subject Code: 20CSP-314

1. Aim/Overview of the practical:

To solve the following hacker rank problems based on Searching and Sorting.

2. Task to be done/ Which logistics used:

https://www.hackerrank.com/challenges/quicksort1/problem?isFullScreen=true

3. Steps for experiment/practical/Code:

```
import java.util.*;

public class Solution {
   public static void main(String[] args) {
        Scanner I = new Scanner(System.in);
        int n = I.nextInt();
        int[] arr = new int[n];
        for(int i=0;i<n;i++){
            arr[i]=I.nextInt();
        }
        partition(arr);
        printArr(arr);</pre>
```







```
static void printArr(int[] arr) {
   for(int n: arr){
     System.out.print(n+" ");
   }
    System.out.println("");
}
static void partition(int[] arr) {
  int r=arr[0];
  int[] cp=Arrays.copyOf(arr, arr.length);
  int c=0;
  for(int i=1;i<arr.length;i++){</pre>
     if(cp[i] \leq r)
       arr[c]=cp[i];
       c++;
     }
  }
  arr[c]=r;
  c++;
```





```
for(int j=0;j<arr.length;j++){
    if(cp[j]>r){
        arr[c]=cp[j];
        c++;
    }
}
```

4. Result/Output/Writing Summary:









1. Aim/Overview of the practical:

To solve the following hacker rank problems based on Searching and Sorting..

2. Task to be done/ Which logistics used:

https://www.hackerrank.com/challenges/countingsort4/problem?isFullScreen=true

3. Steps for experiment/practical/Code: import java.io.*; import java.util.*; import java.text.*; import java.math.*; import java.util.regex.*; public class Solution { public static void main(String[] args) throws Exception { **BufferedReader in = new BufferedReader(new InputStreamReader(System.in))**; int n = Integer.parseInt(in.readLine()); StringBuffer[] map = new StringBuffer[100]; for(int i = 0; i < 100; i++) { map[i] = new StringBuffer(); } for(int i = 0; i < n; i++) { StringTokenizer tok = new StringTokenizer(in.readLine()); int v = Integer.parseInt(tok.nextToken());



String s = tok.nextToken();





```
map[v].append(i < n / 2 ? "-" : s).append(" ");
}
for(int i = 0; i < 100; i++) {
    System.out.print(map[i]);
}
System.out.println();
}</pre>
```

4. Result/Output/Writing Summary:

