## **Jobsheet 3**

Subject	Data Structure and Algorithm
	Imam Fahrur Rozi ST. MT.
<ul><li>Туре</li></ul>	Assignment
Semester	Semester 2
■ Time	@March 16, 2023

## 4. Code

```
package Asg;
public class CandidateVotes
    public int element;
    public String[] votes;
    public CandidateVotes(int element)
        this.element = element;
       votes = new String[element];
    public String votesCount(String[] votes, int left, int right)
       String result = "";
       if (left == right)
            result = votes[left];
       }
       else
            int mid = (left + right) / 2;
            String rightResult = votesCount(votes, left, mid);
            String leftResult = votesCount(votes, mid + 1, right);
        return result;
   }
```

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```
public String votesPrint()
    {
        String voteSelected = "";
        int num = 0;
        for (int i = 0; i < element; i++)
            int count = 0;
            for (int j = 0; j < element; j++)
                if (votes[i].equals(votes[j]))
                {
                    count++;
            }
            if (count > num)
                num = count;
                voteSelected = votes[i];
            }
        return voteSelected;
   }
}
```

```
package Asg;
import java.util.Scanner;
public class CandidateVotesMain
    public static void main(String[] args)
        Scanner sc = new Scanner(System.in);
        System.out.print("Input the number of candidate: ");
        int candNum = sc.nextInt();
        CandidateVotes vot = new CandidateVotes(candNum);
        vot.element = candNum;
        for (int i = 0; i < vot.element; i++)</pre>
        {
            System.out.print("Input the name from the vote number " + (i+1) + ": ");
            vot.votes[i] = sc.next();
        }
        vot.votesCount(vot.votes, 0, vot.element - 1);
        System.out.println("The winner for the election is " + vot.votesPrint());
   }
}
```

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## result

```
Input the number of candidate: 8

Input the name from the vote number 1: Haris

Input the name from the vote number 2: Dian

Input the name from the vote number 3: Haris

Input the name from the vote number 4: Rani

Input the name from the vote number 5: Bisma

Input the name from the vote number 6: Haris

Input the name from the vote number 7: Haris

Input the name from the vote number 8: Haris

The winner for the election is Haris
```

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