

PSEUDOCODE – Task 3

```
DECLARE numVotes : INTEGER
DECLARE percOne : REAL
DECLARE percTwo : REAL
DECLARE percThree : REAL
DECLARE percFour : REAL
```

```
numVotes = groupStudents - voteAbstentions
```

```
OUTPUT "The total number of votes cast were: " & numVotes & " votes."
```

```
OUTPUT "The total number of abstentions were: " & voteAbstentions
```

```
percOne = (CandidateVotes[1] / numVotes) * 100
```

```
OUTPUT "Candidate name: " & candidateNames[1]
```

```
OUTPUT "Number of votes: " & candidateVotes[1]
```

```
OUTPUT "Percentage votes: " & percOne & "%"
```

```
IF numCandidates >= 2 THEN
```

```
    percTwo = (CandidateVotes[2] / numVotes) * 100
```

```
    OUTPUT "Candidate name: " & candidateNames[2]
```

```
    OUTPUT "Number of votes: " & candidateVotes[2]
```

```
    OUTPUT "Percentage votes: " & percTwo & "%"
```

```
    IF numCandidates >= 3 THEN
```

```
        percThree = (CandidateVotes[3] / numVotes) * 100
```

```
        OUTPUT "Candidate name: " & candidateNames[3]
```

```
        OUTPUT "Number of votes: " & candidateVotes[3]
```

```
        OUTPUT "Percentage votes: " & percThree & "%"
```

```
        IF numCandidates = 4 THEN
```

```
            percFour = (CandidateVotes[4] / numVotes) * 100
```

```
            OUTPUT "Candidate name: " & candidateNames[4]
```

```
            OUTPUT "Number of votes: " & candidateVotes[4]
```

```
            OUTPUT "Percentage votes: " & percFour & "%"
```

```
        ENDIF
```

```
    ENDIF
```

```
ENDIF
```

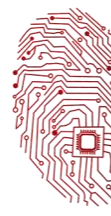
```
IF numCandidates >= 2 THEN
```

```
    IF percOne = percTwo THEN
```

```
        OUTPUT "The elections are to be run again with candidates " &
```

```
        candidateNames[1] & " and" & candidateNames[2]
```





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```
ENDIF

ENDIF

IF numCandidates >= 3 THEN

    IF percOne = percThree THEN

        OUTPUT "The elections are to be run again with candidates " &
            candidateNames[1] & " and" & candidateNames[3]

    ENDIF

    IF percTwo = percThree THEN

        OUTPUT "The elections are to be run again with candidates " &
            candidateNames[2] & " and" & candidateNames[3]

    ENDIF

ENDIF

IF numCandidates = 4 THEN

    IF percOne = percFour THEN

        OUTPUT "The elections are to be run again with candidates " &
            candidateNames[1] & " and" & candidateNames[4]

    ENDIF

    IF percTwo = percFour THEN

        OUTPUT "The elections are to be run again with candidates " &
            candidateNames[2] & " and" & candidateNames[4]

    ENDIF

    IF percThree = percFour THEN

        OUTPUT "The elections are to be run again with candidates " &
            candidateNames[3] & " and" & candidateNames[4]

    ENDIF

ENDIF
```

