

## PSEUDOCODE – Task 1

```
DECLARE candidateNames : ARRAY[1:4] OF STRING
DECLARE candidateVotes : ARRAY[1:4] OF INTEGER

DECLARE groupStudents : INTEGER
DECLARE groupStudentsLoop : INTEGER
DECLARE voteAbstentions : INTEGER
DECLCARE numCandidates : INTEGER
DECLARE maxVotes : INTEGER
DECLARE groupName : STRING
DECLARE studentChoice : STRING
```

```
groupStudents = 0
```

```
OUTPUT "Enter the tutor group name: "
INPUT groupName
```

```
IF groupStudents < 2 or groupStudents > 35 THEN
```

```
    OUTPUT "Enter the number of students in the tutor group (28-35): "
    INPUT groupStudents
```

```
    WHILE groupStudents < 2 or groupStudents > 35
```

```
        DO
```

```
            OUTPUT "Enter a valid number of students (28-35): "
            INPUT groupStudents
```

```
        ENDWHILE
```

```
    ENDIF
```

```
OUTPUT "Enter the number of candidates (1-4): "
INPUT numCandidates
```

```
WHILE numCandidates < 1 or numCandidates > 4
```

```
    DO
```

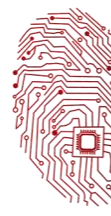
```
        OUTPUT "Enter a valid number of candidates (1-4)"
        INPUT numCandidates
```

```
    ENDWHILE
```

```
OUTPUT "Enter the name of the first candidate: "
INPUT candidateNames[1]
```

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

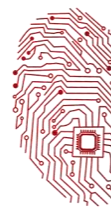




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```
OUTPUT "Enter the name of the second candidate: "  
INPUT candidateNames[2]  
  
IF numCandidates >= 3 THEN  
  
    OUTPUT "Enter the name of the third candidate: "  
    INPUT candidateNames[3]  
  
    IF numCandidates = 4 THEN  
  
        OUTPUT "Enter the name of the fourth candidate: "  
        INPUT candidateNames[4]  
  
    ENDIF  
  
ENDIF  
  
ENDIF  
  
groupStudentsLoop = groupStudents  
  
WHILE groupStudentsLoop >= 1  
  
    DO  
  
        OUTPUT "Enter the voting choice of the next student (Enter 'SKIP' for  
            abstention"  
        INPUT studentChoice  
  
        IF studentChoice = candidateNames[1] THEN  
  
            candidateVotes[1] = candidateVotes[1] + 1  
            groupStudentsLoop = groupStudentsLoop - 1  
  
        ELSEIF studentChoice = candidateNames[2] THEN  
  
            candidateVotes[2] = candidateVotes[2] + 1  
            groupStudentsLoop = groupStudentsLoop - 1  
  
        ELSEIF studentChoice = candidateNames[3] THEN  
  
            candidateVotes[3] = candidateVotes[3] + 1  
            groupStudentsLoop = groupStudentsLoop - 1  
  
        ELSEIF studentChoice = candidateNames[4] THEN  
  
            candidateVotes[4] = candidateVotes[4] + 1  
            groupStudentsLoop = groupStudentsLoop - 1  
  
        ELSEIF studentChoice = "SKIP" THEN
```





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```
        voteAbstentions = voteAbstentions + 1
        groupStudentsLoop = groupStudentsLoop - 1

    ELSE

        OUTPUT "Enter a correct choice."

    ENDIF

ENDWHILE

OUTPUT "Tutor Group: " & groupName
OUTPUT "Votes for " & candidateName[1] & ": " & candidateVotes[1]

IF numCandidates >= 2 THEN

    OUTPUT "Votes for " & candidateName[2] & ": " & candidateVotes[2]

    IF numCandidates >= 3 THEN

        OUTPUT "Votes for " & candidateName[3] & ": " & candidateVotes[3]

        IF numCandidates = 4 THEN

            OUTPUT "Votes for " & candidateName[4] & ": " & candidateVotes[4]

        ENDIF

    ENDIF

ENDIF

ENDIF

ENDIF

maxVotes = -1000

IF candidateVotes[1] > maxVotes OR candidateVotes[1] = maxVotes THEN

    OUTPUT "Candidate " & candidateNames[1] & ", with " & candidateVotes[1] &
        "vote(s) has the most votes!"

    maxVotes = candidateVotes[1]

ENDIF

IF candidateVotes[2] > maxVotes OR candidateVotes[2] = maxVotes THEN

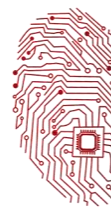
    OUTPUT "Candidate " & candidateNames[2] & ", with " & candidateVotes[2] &
        "vote(s) has the most votes!"

    maxVotes = candidateVotes[2]

ENDIF

IF candidateVotes[3] > maxVotes OR candidateVotes[3] = maxVotes THEN
```





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```
OUTPUT "Candidate " & candidateNames[3] & ", with " & candidateVotes[3] &  
      "vote(s) has the most votes!"
```

```
maxVotes = candidateVotes[3]
```

```
ENDIF
```

```
IF candidateVotes[4] > maxVotes OR candidateVotes[4] = maxVotes THEN
```

```
OUTPUT "Candidate " & candidateNames[4] & ", with " & candidateVotes[4] &  
      "vote(s) has the most votes!"
```

```
maxVotes = candidateVotes[4]
```

```
ENDIF
```

