

```
#include <stdio.h>
```

```
int main() {
```

```
    char name[100];
```

```
    char gender;
```

```
    int age;
```

```
    char vote;
```

```
    int votesA = 0, votesB = 0, votesC = 0, votesD = 0, votesE = 0;
```

```
    int numVoters;
```

```
    printf("Enter the number of voters: ");
```

```
    scanf("%d", &numVoters);
```

```
    for (int i = 0; i < numVoters; i++) {
```

```
        printf("\nVoter %d:\n", i + 1);
```

```
        printf("Enter your name: ");
```

```
        scanf("%s", name);
```

```
        printf("Enter your gender (M/F): ");
```

```
        scanf(" %c", &gender);
```

```
        printf("Enter your age: ");
```

```
        scanf("%d", &age);
```

```
        if (age < 18) {
```

```
            printf("Sorry, %s, you are not eligible to vote.\n", name);
```

```
            continue;
```

```
        if (gender == 'M' || gender == 'm') {
```

```
            printf("Mr. %s, ", name);
```

```
        } else if (gender == 'F' || gender == 'f') {
```

```
            printf("Ms. %s, ", name);
```

```
        } else {
```

```
            printf("Invalid entry.\n");
```

```
            continue;
```

```
        printf("please vote for party \nA\nB\nC\nD\nE \nEnter the letter of the Party you want to vote for : ");
```

```
        scanf(" %c", &vote);
```

```
        switch (vote) {
```

```
            case 'A':
```

```
            case 'a':
```

```
                votesA++;
```

```
                break;
```

```
            case 'B':
```

```

        case 'b':
            votesB++;
            break;
        case 'C':
        case 'c':
            votesC++;
            break;
        case 'D':
        case 'd':
            votesD++;
            break;
        case 'E':
        case 'e':
            votesE++;
            break;
        default:
            printf("Invalid vote.\n");
            continue;
    }
}

```

```

printf("\nVoting Results:\n");
printf("Party A: %d votes\n", votesA);
printf("Party B: %d votes\n", votesB);
printf("Party C: %d votes\n", votesC);
printf("Party D: %d votes\n", votesD);
printf("Party E: %d votes\n", votesE);

```

```

if (votesA > votesB && votesA > votesC && votesA > votesD && votesA > votesE) {
    printf("\nParty A is the winner!\n");
} else if (votesB > votesA && votesB > votesC && votesB > votesD && votesB > votesE) {
    printf("\nParty B is the winner!\n");
} else if (votesC > votesA && votesC > votesB && votesC > votesD && votesC > votesE) {
    printf("\nParty C is the winner!\n");
} else if (votesD > votesA && votesD > votesB && votesD > votesC && votesD > votesE) {
    printf("\nParty D is the winner!\n");
} else if (votesE > votesA && votesE > votesB && votesE > votesC && votesE > votesD) {
    printf("\nParty E is the winner!\n");
} else {
    printf("\nIt's a tie!\n");
}

```

```

int maxVotes = 0;
if (votesA >= maxVotes) maxVotes = votesA;
if (votesB >= maxVotes) maxVotes = votesB;
if (votesC >= maxVotes) maxVotes = votesC;
if (votesD >= maxVotes) maxVotes = votesD;
if (votesE >= maxVotes) maxVotes = votesE;

```

```

printf("\nResult: ");
if (votesA == maxVotes) printf("Party A ");
if (votesB == maxVotes) printf("Party B ");
if (votesC == maxVotes) printf("Party C ");
if (votesD == maxVotes) printf("Party D ");
if (votesE == maxVotes) printf("Party E ");

```

```

if (maxVotes == 0) {
    printf("\nNo valid votes.\n");
} else {
    printf("is/are the winner(s)!\n");
}

```

```
}
```

```
return 0;  
}
```