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1  /// Soccer League: Com Pro 1 Final Exam 2556-2
2  #include <stdio.h>
3  #include <limits.h>
4
5  struct {
6      char name[51];
7      int score;
8      int goalFor;
9      int goalAgainst;
10     int goalDiff;
11 } typedef TEAM;
12
13 void main() {
14     int K;
15     scanf("%d", &K);
16     TEAM T[K + 1];
17
18     char temp[10];
19     gets(temp);
20
21     for(int i = 1; i <= K; ++i) {
22         gets(T[i].name);
23         T[i].score = 0;
24         T[i].goalFor = 0;
25         T[i].goalAgainst = 0;
26         T[i].goalDiff = 0;
27     }
28
29     for(int i = 0; i < K * (K - 1); ++i) {
30         int A, B, C, D;
31         scanf("%d %d %d %d", &A, &B, &C, &D);
32         T[A].goalFor += C;
33         T[A].goalAgainst += D;
34         T[A].goalDiff += C - D;
35         T[B].goalFor += D;
36         T[B].goalAgainst += C;
37         T[B].goalDiff += D - C;
38
39         if(C == D) {
40             T[A].score += 1;
41             T[B].score += 1;
42         } else if(C > D) {
43             T[A].score += 3;
44         } else {
45             T[B].score += 3;
46         }
47     }
48
49     int maxScore = INT_MIN;
50     int maxGoal = INT_MIN;
51     int maxDiff = INT_MIN;
52     for(int i = 1; i <= K; ++i) {
53         if(T[i].score > maxScore)
54             maxScore = T[i].score;
55
56         if(T[i].goalFor > maxGoal)
57             maxGoal = T[i].goalFor;
58
59         if(T[i].goalDiff > maxDiff)
60             maxDiff = T[i].goalDiff;
61     }
62
63     for(int i = 1; i <= K; ++i) {
64         if(T[i].score == maxScore)
65             printf("%s\n", T[i].name);
66     }

```

```
67     for(int i = 1; i <= K; ++i) {
68         if(T[i].goalFor == maxGoal)
69             printf("%s\n", T[i].name);
70     }
71     for(int i = 1; i <= K; ++i) {
72         if(T[i].goalDiff == maxDiff)
73             printf("%s\n", T[i].name);
74     }
75 }
```