Zadaci za vježbu: Vjezba za lab. 5 Branimir i rukomet

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Priprema	C - Vjezba 6	1D polje	funkcije	sort

Mario, Arian i Ivan su naizgled obični studenti. No, pokazalo se da njihov mlađi brat Branimir i nije tako običan. On naime voli pratiti rukomet, i bilježiti rezultate rukometnih utakmicama i igrati jednu (njemu) izuzetno interesnatnu igru s brojevima. Naime, on zapiše rezultate **N** rukometnih utakmica, te za svaki tako napisani par brojeva **a** i **b** izračuna redom:

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Test case #1

```
Za 1. utakmicu, broj Sz = 7 (2+1 + 2+2), a broj Nd = 4 (broj 21 i 22 imaju po dva djelitelja svak
i). Broj koji zapisujemo na novi papir je 7%4 = 3
Za 2. utakmicu, broj Sz = 13 (2+4 + 2+5), a broj Nd = 7 (broj 24 ima 6 djelitelja, a broj 25 jedno
g). Broj koji zapisujemo na novi papir je 13%7 = 6
Brojevi posloženi od najmanjeg do najvećeg na novom papiru su: 3, 6
```

Primjer ulaza:

```
2
21 22
25 24
```

Primjer izlaza:

```
6, 3
```

Test case #2

Primjer ulaza:

```
10
54 39
57 38
39 43
43 59
39 59
48 53
57 30
30 56
44 32
47 40
```

Primjer izlaza:

```
60, 54, 52, 34, 24, 24, 16, 13, 9, 6
```

Test case #3

Primjer ulaza:

```
25
61 49
67 30
40 51
50 60
49 38
74 50
64 40
40 78
56 66
67 69
57 73
58 73
68 53
54 77
36 34
48 57
69 50
37 49
41 68
58 46
37 37
79 69
76 33
62 43
32 36
```

Primjer izlaza:

```
101, 60, 35, 25, 23, 22, 22, 15, 14, 13, 13, 11, 10, 9, 8, 7, 7, 4, 3, 2, 2, 1, 0, 0, 0
```

Test case #4

```
N će biti uvijek manji ili jednak 150
```

Primjer ulaza:

```
150
34 99
56 25
52 83
102 47
60 35
45 39
17 12
65 102
76 107
14 43
46 35
99 92
31 106
51 39
96 60
95 65
73 98
83 90
98 25
92 59
31 28
37 99
77 79
56 87
107 90
48 94
45 31
24 65
15 44
43 87
50 87
94 55
95 10
41 17
96 85
93 30
42 85
69 72
79 104
108 33
81 26
43 23
36 14
36 64
29 53
46 71
102 10
65 75
44 32
72 34
50 60
97 72
56 61
25 93
```

```
25  55
47  52
13  40
43  55
52  66
83  83
90  103
84  18
41  51
45  54
90  71
60  11
73  85
76  17
96  29
62  101
45  78
10  33
71  73
24  75
51  75
23  43
52  25
84  11
27  103
49  47
83  57
76  60
60  94
35  101
54  10
50  73
52  95
79  31
18  94
24  103
28  46
38  41
16  70
97  96
54  83
65  24
101  48
19  42
101  10
66  63
102  89
99  36
28  60
75  70
89  32
36  54
99  32
91  102
86  45
53  59
```

52 59
28 67
82 98
64 20
13 46
19 99
53 96
13 76
18 107
67 37
28 45
93 84
11 93
95 95
87 17
32 28
104 15
106 75
42 20
31 17
75 88
23 58
57 64
92 41
109 25
90 38
16 28
74 40
66 15
33 49
44 23
97 22
106 98
68 79
60 47
100 51
52 103
41 32
85 106
12 26
74 23
33 27

Primjer izlaza:

```
254, 212, 199, 153, 152, 152, 129, 116, 114, 112, 109, 109,
106, 100, 95, 87, 82, 80, 79, 76, 72, 72, 72, 69, 66, 63, 61,
61, 60, 60, 59, 59, 57, 56, 56, 54, 53, 52, 52, 51, 47, 46, 46,
45, 45, 45, 45, 45, 44, 44, 43, 43, 42, 41, 41, 40, 39, 39, 39,
39, 38, 38, 38, 37, 37, 37, 36, 35, 34, 33, 33, 32, 31, 30, 30,
30, 30, 29, 29, 29, 29, 29, 28, 28, 28, 28, 28, 28, 27, 27, 27,
26, 26, 25, 25, 25, 25, 24, 24, 23, 23, 23, 23, 22, 21, 21, 18,
18, 18, 16, 14, 13, 13, 13, 12, 12, 12, 12, 11, 9, 9, 9, 8, 8,
8, 7, 7, 7, 7, 5, 5, 4, 4, 4, 4, 4, 3, 3, 3, 3, 2, 1, 1, 1, 0,
0, 0, 0, 0, 0
```

Test case #5

Rukometne utakmice mogu biti malo duže, no neće biti više od 1,000,001 gol.
Napomena: ovaj test primjer neće raditi većini studenata. Uvjet za pristup vježbi je 20% ispravnih
test primjera (u ovom slučaju 1/5).

Primjer ulaza:

150

124737 403651
326327 139436
244971 335388
741037 332732
970966 408148
43184 103310
991796 744560
272844 892703
749615 276667
147743 795
851658 738727
625581 985449
854325 524834
970569 338646
912989 578732
299435 389248
218532 561430
422419 646896
217981 868536
924922 249124
568148 261904
92740 243315
800391 215573
700976 224694
265077 279698
579952 312166
320571 306774
14410 94277
555960 579343
626904 540424
329260 900735
806974 352300
781306 550848
915676 766125
191356 485581
778106 146888
551688 163905
921638 833903
350262 356681
526199 54631
202245 290352
25947 404254
34046 643337
495368 281700
11427 14711
555852 274947
345351 91659
962101 146835
778164 618657
303900 285423
295904 529583
773765 170590
627905 388387
108349 369269

108349 509209
306451 504070
974257 928714
924081 334920
631432 634693
641509 586739
613654 978480
952929 178061
342366 321572
37355 227490
218867 420244
918850 515059
543048 773439
960562 49276
735980 304474
117676 684792
310023 877093
695653 24042
998034 585751
446198 629824
356172 120877
230912 790008
799536 593495
724445 851151
253336 291732
568072 119524
12435 647557
227721 406467
570909 160475
765138 140815
786535 339836
932204 805132
107567 372913
128156 301317
398997 981943
946525 625664
679538 33017
264416 23874
442783 324669
54398 282751
921002 107369
814045 282978
610647 328867
825147 75646
422666 367741
476030 327398
984491 885480
951564 988141
149813 428384
150204 896000
456189 445554
552210 319161
951325 675521
124746 755003
202494 848065
183188 347941

183188 247041
131774 180139
294448 676883
376868 470629
841584 455995
24255 819715
604571 760568
420997 10811
49553 971488
363078 697678
890215 804207
529310 277561
611928 692025
981408 407305
785239 700054
481158 302855
57477 607450
124522 132360
408187 727786
945149 22091
591584 199837
678551 917573
356726 769028
439843 483541
845893 181431
710097 219921
874430 298243
7546 485524
658406 231308
782410 69694
308339 659037
391230 665480
896058 557470
906425 264714
343800 148978
568321 503803
367096 510104
109888 571559
272636 501346
820256 910470
903847 318248
4369 590077

Primjer izlaza:

```
2693794, 2619473, 2573697, 2458588, 2318667, 2251368, 2239554,
2167755, 2143450, 2131350, 2128955, 2063736, 2059120, 1999385,
1980370, 1962440, 1952566, 1942932, 1893215, 1846859, 1822837,
1739519, 1721422, 1691025, 1689394, 1672283, 1672250, 1621361,
1598090, 1578703, 1559804, 1524700, 1510932, 1501896, 1473224,
1470004, 1446893, 1440680, 1428161, 1398601, 1391805, 1381724,
1338764, 1333063, 1326289, 1254288, 1250318, 1210497, 1209616,
1206940, 1197510, 1195002, 1194826, 1179402, 1169764, 1117770,
1107561, 1083447, 1051871, 987825, 930980, 869474, 868708, 858864,
851863, 838447, 824866, 807322, 775470, 773834, 771326, 768659,
761194, 728224, 698938, 693880, 689965, 689260, 652338, 625938,
617068, 591053, 566018, 565841, 563842, 557186, 546040, 538269,
537339, 521374, 512042, 498150, 490917, 480686, 480026, 477295,
475632, 468017, 443218, 440189, 437824, 406757, 396104, 393170,
389031, 382956, 368061, 338348, 326878, 321073, 318763, 315716,
313077, 290514, 289435, 285716, 281723, 279743, 277913, 276364,
270231, 266406, 264317, 263559, 258526, 243917, 242994, 220605,
190885, 182389, 145848, 138223, 134676, 133110, 126432, 121142,
120485, 111450, 106284, 97123, 95242, 94531, 84773, 67227, 59110,
34141, 27954, 25034, 3844, 297
```

Odaberi zadatak

Naziv	Grupa	Lozinka
Branimir i rukomet		Počni (/student/tasks/display/45ff38b1-75c4-4944-bc31-57338c1b0fc3)
Pekar Pavo peče peciva pa prema promjeru poklanja/prodaje pečena peciva		Počni (/student/tasks/display/3bf5b098-509c-41ad-b85f-6c02d2d54c81)
Ribar i ribe - dodatno		Počni (/student/tasks/display/092021e2-9f69-43ec-a4db-7f9bee794c94)
Ribar i ribe - pametne ribice		Počni (/student/tasks/display/342819c2-730d-4562-ac01-837048d23669)
Ribar i ribe		Počni (/student/tasks/display/a123ec21-c2bf-4143-beea-ac5cfd981a0c)
Ribar i ribe - kapitalac		Počni (/student/tasks/display/3593af93-5a71-4b62-af39-ba4e9dbfae98)
Karlo i košarka		Počni (/student/tasks/display/366480e7-84af-4413-8804-e80af567bf3c)