

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
123189184	Virtual: TheKing003KS #	1471A - 38	GNU C++14	Accepted	202 ms	4436 KB	2021-07-21 15:31:28	2021-07-21 15:31:28	★	Compare

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```

#include<iostream>
#include<limits.h>
#include<math.h>
#include<vector>
#include<string>
#include<queue>
#include<stack>
#include<set>
#include<map>
#include<unordered_set>
#include<unordered_map>
#include<algorithm>
using namespace std;

#define ll long long
#define ull unsigned long long
#define modulo 1000000007
#define mp make_pair
#define pb push_back

int main()
{
    ll int tests;
    cin >> tests;
    while(tests--)
    {
        ll int n, x;
        cin >> n >> x;
        vector<ll int> arr(n);
        for(auto i = 0; i < n; i++) {cin >> arr[i];}

        ll int maxi = 0;
        ll int mini = 0;
        ll int sum = 0;
        for(auto i = 0; i < n; i++)
        {
            if(arr[i]%x == 0)
            {
                maxi += arr[i]/x;
                mini += arr[i]/x;
            }
            else
            {
                maxi += (arr[i]/x)+1;
                sum += arr[i];
            }
        }
        if(sum == 0) {cout << maxi << " " << maxi;}
        else
        {
            if(sum%x == 0) {mini += sum/x;}
            else {mini += (sum/x)+1;}
            cout << mini << " " << maxi;
        }
    }
}

```

```
        cout << "\n";
    }

    return 0;
}

// LL int n;
// cin >> n;
// vector<LL int> arr(n);
// for(auto i = 0; i < n; i++) {cin >> arr[i];}

// for(auto i = 0; i < n; i++) {cout << arr[i] << " ";}

// sort(begin(arr),end(arr));
```

1**Time:** 0 ms, **memory:** 3644 KB**Verdict:** OK**Input**

```
2
3 3
3 6 9
3 3
6 4 11
```

Participant's output

```
6 6
7 8
```

Jury's answer

```
6 6
7 8
```

Checker comment

```
ok 4 number(s): "6 6 7 8"
```

2**Time:** 15 ms, **memory:** 3772 KB**Verdict:** OK**Input**

```
1000
9 93
66 26 23 13 25 53 24 65 25
8 60
66 6 46 17 60 86 73 63
4 86
42 1 88 95
16 54
2 73 25 81 2 15 11 45 35 26 88 34 98 34 75 74
7 56
89 61 30 2 85 9 83
13 28
71 31 58 2 96 4 73 51 37 57 81 43 31
4 19
18 64 74 95
4 36
54 46 79 61
10 58
76 96 17 84 13 33 55 33 78 55
17 5
52 1 22 12 76 6 63 84 94 10 31 68 84 59 80 64 14
9 48
38 57 54 89 63 61 19 82 60
5 5
91 62 22 17 13
14 72
21 52 53 49 88 55 9 77 66 31 35 56 5 49
11 32
81 83 11 98 25 91 8 73 64 92 75
12 89
67 29 3 24 19 87...
```

Participant's output

4 9
7 12
3 6
14 22
7 11
23 31
14 14
7 9
10 14
164 171
11 16
41 44
9 16
22 27
7 15
11 15
7 11
11 23
23 33
24 34
12 21
11 18
10 12
6 9
6 13
42 44
6 11
13 21
6 9
28 37
3 3
2 4
478 482
4 6
5 11
13 18
12 18
36 38
1 3
6 12
12 17
16 25
55 63
27 36
6 11
53 61
5 7
8 17
2 3
7 11
26 35
23 32
6 13
42 52
9 18
2 5
11 15
15 22
845 845
74 77
2 4
11 20
15 25
22 29
12 23
22 25
1 2
16 22
9 13
13 16
9 12
7 12
4 10
24 33
5 9
3 6
17 27
5 6

```
15 23
11 1...
Jury's answer
4 9
7 12
3 6
14 22
7 11
23 31
14 14
7 9
10 14
164 171
11 16
41 44
9 16
22 27
7 15
11 15
7 11
11 23
23 33
24 34
12 21
11 18
10 12
6 9
6 13
42 44
6 11
13 21
6 9
28 37
3 3
2 4
478 482
4 6
5 11
13 18
12 18
36 38
1 3
6 12
12 17
16 25
55 63
27 36
6 11
53 61
5 7
8 17
2 3
7 11
26 35
23 32
6 13
42 52
9 18
2 5
11 15
15 22
845 845
74 77
2 4
11 20
15 25
22 29
12 23
22 25
1 2
16 22
9 13
13 16
9 12
7 12
4 10
24 33
5 9
```

3 6
17 27
5 6
15 23
11 1...
Checker comment
ok 2000 numbers

3

Time: 171 ms, **memory:** 4436 KB
Verdict: OK
Input
1
100000 501901246
856802259 964126361 36942580 586287303 899177135 447296776 255927783 572826092 457031182 481279709 435968456 771554146 121425869 689025697 102366739 614530854 945928491 248920290 65564651 235574645
Participant's output
99678 149973
Jury's answer
99678 149973
Checker comment
ok 2 number(s): "99678 149973"

4

Time: 15 ms, **memory:** 3648 KB
Verdict: OK
Input
11
3 3
4 4 4
5 2
1 2 3 4 5
5 3
3 6 4 9 7
10 15
1 2 5 6 8 10 9 3 129 99
10 999999999
1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000
10 1
1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000
10 3
1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000
10 2
1 1 1 1 1 1 1 1 1
10 10
11 11 11 11 11 11 11 11 11
1 19
1...
Participant's output
4 6
8 9
10 11
19 24
11 20
1000000000 1000000000
3333333334 3333333340
5 10
11 20
6 6
9 10
Jury's answer
4 6
8 9
10 11
19 24
11 20
1000000000 1000000000
3333333334 3333333340
5 10
11 20
6 6
9 10

Checker comment
ok 22 numbers

5

Time: 0 ms, **memory:** 3792 KB

Verdict: OK

Input

```
1000
7 13
12 7 7 6 7 9 9
20 15
2 16 13 16 12 1 18 14 17 9 20 19 12 5 8 13 4 9 1 4
2 7
16 18
18 20
15 1 5 14 3 19 18 8 4 15 20 16 9 13 2 20 5 6
19 2
20 18 6 4 19 17 16 1 16 6 5 10 20 6 6 14 10 14 6
2 15
1 12
1 13
15
11 18
6 9 15 5 11 2 1 17 11 15 2
9 7
12 8 11 9 9 12 20 6 3
2 14
14 8
17 5
8 2 4 13 4 13 18 18 3 4 3 9 18 16 16 8 7
9 19
2 18 3 17 16 14 2 11 5
14 10
13 7 16 4 6 3 1 7 10 1 15 8 10 14
10 15
11 13 19 4 3 11 4 15 3 2
2 15
16 2
17 11
18 19 1 8 16 20 3 12 18 7 11 15 9 ...
```

Participant's output

```
5 7
15 26
5 6
10 18
107 109
1 2
2 2
6 11
13 17
2 2
33 40
5 9
12 18
6 11
2 3
19 26
4 8
74 74
7 13
39 45
2 4
6 9
1 1
5 7
3 3
36 42
33 39
13 13
5 6
32 41
10 12
2 2
17 19
28 35
11 17
```

```
77 82
7 12
3 9
3 4
23 28
72 74
28 28
9 17
3 5
7 8
6 12
32 33
2 5
8 15
2 2
15 24
3 6
10 18
34 41
12 20
16 20
40 45
26 34
5 9
189 189
4 4
2 3
212 212
9 9
6 9
7 10
102 102
24 25
28 30
18 23
4 6
8 8
17 25
5 8
7 11
184 184
114 114
9 12
9 11
20 21
13 20
36 ...
Jury's answer
5 7
15 26
5 6
10 18
107 109
1 2
2 2
6 11
13 17
2 2
33 40
5 9
12 18
6 11
2 3
19 26
4 8
74 74
7 13
39 45
2 4
6 9
1 1
5 7
3 3
36 42
33 39
13 13
5 6
32 41
```

```
10 12
2 2
17 19
28 35
11 17
77 82
7 12
3 9
3 4
23 28
72 74
28 28
9 17
3 5
7 8
6 12
32 33
2 5
8 15
2 2
15 24
3 6
10 18
34 41
12 20
16 20
40 45
26 34
5 9
189 189
4 4
2 3
212 212
9 9
6 9
7 10
102 102
24 25
28 30
18 23
4 6
8 8
17 25
5 8
7 11
184 184
114 114
9 12
9 11
20 21
13 20
36 ...
Checker comment
ok 2000 numbers
```

6

Time: 171 ms, memory: 3724 KB

Verdict: OK

Input

```
10
10000 528358329
872997771 628958060 935910831 543331653 659667826 52360064 892684938 639798418 434550651 343834018 744556329 5981751 995266990 481518385 471341677 47406845 952138087 739169540 173539789 981622883 45
```

Participant's output

```
9484 14752
6585 12423
32597 37821
5691 11284
66862 71965
5266 10600
17169 22563
61373 66433
7727 13533
227345 232398
```

Jury's answer

9484 14752 6585 12423 32597 37821 5691 11284 66862 71965 5266 10600 17169 22563 61373 66433 7727 13533 227345 232398 Checker comment ok 20 numbers
--

7
Time: 156 ms, memory: 3736 KB Verdict: OK Input 10 10000 528358329 872997771 528358329 935910831 528358329 659667826 528358329 892684938 528358329 434550651 528358329 744556329 528358329 995266990 528358329 471341677 528358329 952138087 528358329 173539789 528358329 Participant's output 9758 12394 8293 11206 34758 37375 7864 10653 69271 71809 7646 10307 19177 21899 63791 66312 8851 11761 229776 232334 Jury's answer 9758 12394 8293 11206 34758 37375 7864 10653 69271 71809 7646 10307 19177 21899 63791 66312 8851 11761 229776 232334 Checker comment ok 20 numbers

8
Time: 187 ms, memory: 3728 KB Verdict: OK Input 10 10000 528358329 Participant's output 10000 10000 10000 10000 36966 36966 10000 10000 71664 71664 10000 10000 21235 21235 66157 66157 10000 10000 232282 232282 Jury's answer 10000 10000 10000 10000 36966 36966 10000 10000 71664 71664 10000 10000 21235 21235

66157 66157 10000 10000 232282 232282 Checker comment ok 20 numbers
--

9
Time: 156 ms, memory: 3652 KB Verdict: OK Input 100 1000 773728995 881156650 784496462 813415697 666478897 377486496 727268305 135594493 911681671 946680814 652558824 352213662 282346788 956566431 248194483 329350194 372376365 922177990 789420921 336494782 65894186 Participant's output 623 1208 1385 1911 743 1328 606 1167 524 1048 582 1130 951 1477 8196 8694 3082 3582 578 1123 520 1027 2203 2730 944 1466 3774 4278 1176 1743 581 1141 575 1137 838 1401 538 1064 611 1180 775 1353 863 1425 894 1444 942 1483 628 1217 3515 4023 775 1353 582 1153 707 1282 533 1065 570 1114 750 1327 608 1162 758 1350 4996 5506 958 1485 3878 4386 2541 3052 1523 2028 1400 1925 1311 1852 14190 14684 562 1099 9721 10220 669 1282 1189 1751 592 1154 561 1091 566 1081 69... Jury's answer 623 1208 1385 1911 743 1328 606 1167 524 1048 582 1130 951 1477 8196 8694 3082 3582 578 1123

Checker comment
ok 200 numbers

```
ok 2 number(s): "116696 200000"
```

```
ok 2 number(s): "50000000000 50000000000"
```

<div>12</div> <div><div><div>Time: 0 ms, memory: 3632 KB</div><div>Verdict: OK</div><div>Input</div><div>1</div><div>10 1</div><div>1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000</div><div>Participant's output</div><div>1000000000 1000000000</div><div>Jury's answer</div><div>1000000000 1000000000</div><div>Checker comment</div><div>ok 2 number(s): "1000000000 1000000000"</div></div></div>
<div>13</div> <div><div><div>Time: 15 ms, memory: 3636 KB</div><div>Verdict: OK</div><div>Input</div><div>1</div><div>20 2</div><div>536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912 536870912</div><div>Participant's output</div><div>5368709120 5368709120</div><div>Jury's answer</div><div>5368709120 5368709120</div><div>Checker comment</div><div>ok 2 number(s): "5368709120 5368709120"</div></div></div>
<div>14</div> <div><div><div>Time: 0 ms, memory: 3648 KB</div><div>Verdict: OK</div><div>Input</div><div>1</div><div>6 1</div><div>1000000000 1000000000 1000000000 1000000000 1000000000 1000000000</div><div>Participant's output</div><div>6000000000 6000000000</div><div>Jury's answer</div><div>6000000000 6000000000</div><div>Checker comment</div><div>ok 2 number(s): "6000000000 6000000000"</div></div></div>
<div>15</div> <div><div><div>Time: 15 ms, memory: 3660 KB</div><div>Verdict: OK</div><div>Input</div><div>1</div><div>4 2</div><div>2 10234 6548 2345</div><div>Participant's output</div><div>9565 9565</div><div>Jury's answer</div><div>9565 9565</div><div>Checker comment</div><div>ok 2 number(s): "9565 9565"</div></div></div>
<div>16</div> <div><div><div>Time: 0 ms, memory: 3628 KB</div><div>Verdict: OK</div><div>Input</div></div></div>

1 1 1 1 Participant's output 1 1 Jury's answer 1 1 Checker comment ok 2 number(s): "1 1"

17
Time: 15 ms, memory: 3728 KB Verdict: OK Input 1 10000 1 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 Participant's output 100000000000000 100000000000000 Jury's answer 100000000000000 100000000000000 Checker comment ok 2 number(s): "100000000000000 100000000000000"

18
Time: 202 ms, memory: 4424 KB Verdict: OK Input 1 100000 1 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 1000000000 Participant's output 1000000000000000 1000000000000000 Jury's answer 1000000000000000 1000000000000000 Checker comment ok 2 number(s): "1000000000000000 1000000000000000"

19
Time: 0 ms, memory: 3628 KB Verdict: OK Input 1 8 1 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 Participant's output 80000000 80000000 Jury's answer 80000000 80000000 Checker comment ok 2 number(s): "80000000 80000000"

20
Time: 31 ms, memory: 3636 KB Verdict: OK Input 1 4 2 2 10235 6548 2345 Participant's output 9565 9566 Jury's answer

Checker comment
ok 2 number(s): "9565 9566"

Checker comment
ok 2 number(s): "142857142572 142857143000"

Checker comment
ok 2 number(s): "20000000000 20000000000"

Checker comment
ok 2 number(s): "1 1"

Checker comment
ok 2 number(s): "366666667 366666668"

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