Add up digits multiplied by their position X93976_en

Write a program that reads numbers from the input, and outputs the result of adding each digit multiplied by its position. We consider the most significant digit to be at position 1, the second most significant digit to be at position 2, and so on and so forth.

For example, given 785902, the program will print 86, which is the result of evaluating $1 \times 7 + 2 \times 8 + 3 \times 5 + 4 \times 9 + 5 \times 0 + 6 \times 2$.

Input

The input has an arbitrary number of cases. Each one is a positive natural number in one line.

Output

For each case, the output contains a line with the corresponding result of adding digits multiplied by their positions.

Sample input 1	Sample output 1
35102	26
785902	86
1010101	16
101010	9
1010101	16
10101	9
30219834	159
410938	105
99999999	324
999999	189
113311	35
13221	26
2	2
3	3
123456789	285

Sample input 2	
	65180541
4289384	40383427
46930887	4089173
81692778	3455737
14636916	35005212
57747794	21595369
24238336	94702568
19885387	26956430
49760493	36465783
96516650	61021531
89641422	78722863
25202363	33665124
50490028	45174068
83368691	68703136
2520060	1513930
44897764	1979803
67513927	15634023

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35723059
69133070
25898168
59961394
89018457
28175012
56478043
31176230
53377374
59484422
14544920
8413785
56898538
34575199
73594325
49798316
38664371
```

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159
215
229
178
228
155
230
178
141
119
112
131
194
54
223
178
117
154
132
148
73
212
184
136
198
80
176
128
171
133
89
137
99
164
103
224
192
185
97
149
99
182
141
128
149
232
220
156
192
156
```

Observation

Massive storage solutions are not accepted (like strings or vectors). Read numbers from the input into variables of type int; for instance, with cin >> a, and solve the problem operating with integers using +, −, *, /, and %.
Evaluation over 10 points:

- Slow solution: 5 points.

- Fast solution: 10 points.

We understand as fast solution one which is correct, has linear cost and passes the public and private tests. We understand as slow solution one which is not fast, but it is correct and passes the public tests.

Problem information

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