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## First odd digits (1,3,5,7,9), next positive even digits (2,4,6,8)X66638\_en

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Implement a program that, for each positive natural number  $x$  given as input, prints two natural numbers  $y$ ,  $z$  separated by a white space. Natural  $y$  is composed by the subsequence of digits of  $x$  which are odd (i.e. from the set  $\{1, 3, 5, 7, 9\}$ ), followed by the subsequence of digits of  $x$  which are even and positive (i.e. from the set  $\{2, 4, 6, 8\}$ ). Natural  $z$  is just twice  $y$ , i.e.  $z == 2 * y$ .

For example, if  $x$  is 250813126, then the program must print natural 51312826 first, as the subsequence of odd digits of  $x$  is 5131, and the subsequence of even and positive digits of  $x$  is 2826. Secondly, the program must print 102625652, as it is twice 51312826.

### Input

The input consists of several cases of positive natural numbers  $x$ , each one in a line.

### Output

For each  $x$  from the input, the program prints the corresponding  $y$ ,  $z$  in a new line, and separated by a white space.

### Sample input 1

44	4421134
8	338155
238760	792
40	32621746
9641540	40197
491378	1
521162	1
515894	151
383581	942
3455750	313827
521595369	56426812
6956602	9947367
861021531	394294
233665124	8502843
11	474612401
981604	4095187
4	843993370
899293	38
53	49698604
94607	3189
3377539	
3	
899294	
596298	
76	
515	
36	
749241874	
999213	
98636	

## Sample output 1

```
44 88
8 16
37286 74572
4 8
915644 1831288
913748 1827496
511262 1022524
515984 1031968
335188 670376
355754 711508
515953926 1031907852
956662 1913324
11531862 23063724
335126624 670253248
11 22
91864 183728
4 8
999382 1998764
53 106
9746 19492
3377539 6755078
3 6
999824 1999648
599628 1199256
```

```
76 152
515 1030
36 72
791742484 1583484968
999132 1998264
93866 187732
1134424 2268848
331558 663116
792 1584
31726246 63452492
1974 3948
1 2
1 2
151 302
942 1884
313782 627564
51642682 103285364
9973746 19947492
399424 798848
538284 1076568
71144624 142289248
951748 1903496
39933784 79867568
38 76
9946864 19893728
3198 6396
```

## Observation

It is not allowed to use any massive storage data structure, not even `string`. Please solve this exercise by just using type `int` and manipulating integers with the basic operators (+, -, \*, /, %).

## Problem information

Author: PRO1

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