Digit Conversion Function   X27470_en

Write a function *conv_dig*(*test*, *conv*) that returns a digit conversion function. The returned function takes a positive integer *n* and returns a new integer where each digit *d* of *n* that passes the test (*test*(*d*) == *True*) is replaced by its conversion *conv*(*d*). Digits of *n* that do not pass the test are to be left unchanged by the digit conversion function.

Input

Output

Sample input

```
lambda d: d % 2 == 0
lambda d: d // 2
21098
1032547698
====
lambda d: d < 5
lambda d: 2
1064592
9876543210
```

Sample output

```
21098 11094
1032547698 1031527394
1064592 2262592
9876543210 9876522222
```

Observation

Let us insist that the digit conversion function described is *not* the required *conv_dig* proper, but its output.

Problem information

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