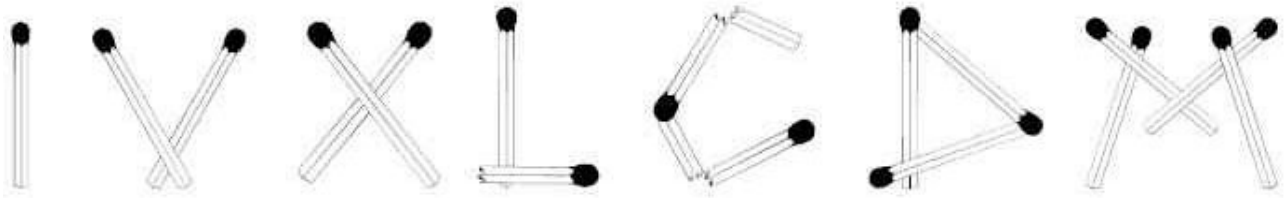
Problem A: Roman Numerals

We would like to build Roman numerals with matches. As you know, Roman numerals are based on the following seven characters: I, V, X, L, C, D, M. Here we introduce the LUSIVERS font, in which the respective characters look like this:



Write a program that counts the number of matches used to build Roman numerals in the LUSIVERS font. This number is exactly the total number of "match heads" in the characters. For instance, to make the number **14** (=XIV), **five** matches are used.

You must follow the "standard modern Roman numerals" (as shown on the Wikipedia page). Expressions like IC or IIII are not allowed.

Input

Input contains multiple lines, each giving a value of N ($1 \leq N \leq 3999$).

Output

For each test case, output the number of matches required to build the number N in Roman numerals.

Sample Input

```
14
2011
```

Sample Output

```
5
11
```

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The LUSIVERS font is available on FontSpace as a freeware