

Problem B. Beautiful String

Input file: standard input
Output file: standard output
Time limit: 3 seconds
Memory limit: 1024 megabytes

Prof. Pang recently got a dictionary of the elvish language, including many strings representing their words. He thinks a partition of string s is beautiful if both of the following conditions are satisfied:

- $s = s_1 + s_2 + s_3 + s_4 + s_5 + s_6$, where $s_i (1 \leq i \leq 6)$ are nonempty substrings. $a + b$ means the concatenation of string a and b here.
- $s_1 = s_2 = s_5, s_3 = s_6$.

For example, you can partition the string “114514” into 6 parts : “114514” = “1” + “1” + “4” + “5” + “1” + “4”. The first, second, fifth parts are the same, and the third and sixth parts are the same. Thus, the partition of $s =$ “114514” into $s_1 =$ “1”, $s_2 =$ “1”, $s_3 =$ “4”, $s_4 =$ “5”, $s_5 =$ “1”, and $s_6 =$ “4” is beautiful.

Accordingly, the beauty of a string s is defined as the number of beautiful partitions of s .

Given a string t , please help Prof. Pang to figure out the sum of beauties of all substrings of t .

Input

The first line contains a single integer T ($1 \leq T \leq 50$) indicating the number of test cases.

For each test case, there is one single line containing the string t , consisting of digits from ‘0’ to ‘9’.

It is guaranteed that the length of each t in each test case will not exceed 5000 and the total length will not exceed 30000.

Output

For each test case, output a single line containing an integer, indicating the sum of beauties of all substrings of t .

Example

standard input	standard output
2	1
114514	3
0000000	