Problem B

Beautiful String

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 $(1 \le i \le 6)$ 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 $(1 \le T \le 50)$ 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.

Sample Input	Sample Output
2 114514 0000000	1 3