

Split the string

Given a string S, the task is to check if we can split it into 4 string such that each string is non-empty and different from each other.

Examples:

Input : S[] = "geeksforgeeks"

Output : 1

"geeks", "for", "gee", "ks" are four distinct strings that can form from given string.

Input : S[] = "aaabb"

Output : 0

Input:

The first line of input contains an integer T denoting the no of test cases. Then T test cases follow. Each test case contains a string S.

Output:

For each test case in a new line print 1 if the string could be splitted else print a 0.

Constraints:

$1 \leq T \leq 200$

$1 < |S| \leq 1000$

Example:

Input:

2

geeksforgeeks

aaabb

Output:

1
0