Good or Bad

Input file:	standard input
Output file:	standard output
Time limit:	2 seconds
Memory limit:	64 megabytes

Given a string S. Determine whether this string is **Good** or **Bad**.

Note: The string is **Good** if and only if it has "**010**" or "**101**" as one of its sub-strings and it's not necessary to have both of them.

A substring of a string is a contiguous subsequence of that string. So, string "forces"is substring of string "codeforces but string "coder"is not.

Input

The first line contains a number T $(1 \leq T \leq 100)$ number of test cases.

Each of the T following lines contains a string S $(1 \leq |S| \leq 10^5)$ where |S| is the length of the string..

It's guaranteed that S contains only '1s' and '0s'.

Output

For each test case, print "**Good**" if the string is **Good** otherwise, print "**Bad**".

Example

standard input	standard output
2 11111110 10101010101010	Bad Good

Note

Example case 1:

The string doesn't contain **010** or **101** as sub-strings.

Example case 2:

The string contains both **010** and **101** as sub-strings.