A	Simple CSS Property convertor

CSS property names are normally in lowercase, and written in dash-separated notation, which means that each pair of adjacent words is separated by a single dash. For example, "z-index", "padding-left", and "border-collapse" are typical names. However, if you use JavaScript to set CSS style properties, you need to use camel notation, where each word except the first starts with an uppercase letter, and adjacent words are not separated. All other letters are lowercase. For example, "z-index" would become "zIndex" in camel notation.

Now, you need to write a program to convert CSS property name into camel notation.

Input

On the first line of input, there is an integer N, representing the number of test cases.

The next N line, there is a CSS property name on each line. You can safely assume that all CSS property names are valid, i.e. only contain **lowercase and '-'. '-'** must be surrounded by two characters. The length of the name is between 1 and 52.

Output

For each test case, output the corresponding camel notation.

Sample Input

Output for Sample Input

Sample Input	Output for Sample Input
3 z-index border-collapse top-border-width	zIndex borderCollapse topBorderWidth