## Find ICPC

Given a string S containing only uppercase English letters count how many times the string "ICPC" occurs in the string $S$.

## Input

The first line contains an integer $\mathrm{T}(1<=\mathrm{T}<=100)$. T lines follow. Each line contains a string S. The length of $S$ is between 1 and 1000.

## Output

For each test case output "Case X : K " where X is the case number starting from 1 and K is the number of times ICPC occurs in the string $S$.

## Example

Input:
2
ABDBIICPC
ICPCACPCICPC

## Output:

Case 1: 1
Case 2: 2

