## Fahrenheit

Write a program that converts temperature to Celsius if it's given in Fahrenheit (input will have an 'F' after the number), or viceversa, if it's given in Celsius (input will have a 'C' after the number).

At least two decimal places must be exact. Other decimals are ignored.
If $C$ is the temperature in Celsuis, the conversion formula to Fahrenheit is: $F=32+9 * C / 5.0$
If $F$ is the temperature in Fahrenheit, the conversion formula to Celsius is: $C=5^{*}(F-32) / 9.0$

## Input

One line with an integer number (between -200 and 100), a space, and a letter ('C' or 'F')

## Output

The temperature converted, in the same format as the input (a number, a space, and a letter 'C' or 'F' indicating if it was converted to Celsius or Fahrenheit, respectively.

## Example

Input:
22 C
Output:
71.6 F

