
Temperatures

P15613_en

Write a program that reads an integer number that represents a temperature given in degree Celsius, and that tells if the weather is hot, if it's cold, or if it's ok. Suppose that it's hot if the temperature is higher than 30 degrees, that it's cold if the temperature is lower than 10 degrees, and that it's ok otherwise. Moreover, warn if with the given temperature water would boil, or if water would freeze. Assume that water boils at 100 or more degrees, and that water freezes at 0 or less degrees.

Input

Input consists of an integer number.

Output

Print a line telling if it's hot, if it's cold, or if it's ok. Additionally, print another line if water would boild or if water would freeze.

Sample input 1

16

Sample output 1

it's ok

Sample input 2

-5

Sample output 2

it's cold
water would freeze

Sample input 3

99

Sample output 3

it's hot

Sample input 4

100

Sample output 4

it's hot
water would boil

Problem information

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