





ICPC Greater NY Regional Contest

B • Comfy Deviations

According to *Wikipedia*, *standard deviation* is a number used to tell how measurements for a group are spread out from the average (mean or expected value). A low *standard deviation* means that most of the numbers are close to the average, while a high *standard deviation* means that the numbers are more spread out. For this problem, you will read in 10 temperature values and use the *standard deviation* to determine if values are close to the mean temperature. The formula for calculating the standard deviation is:

$$s_t = \sqrt{\frac{\sum_{i=1}^{n} (t_i - \bar{t})^2}{n-1}}$$

 S_t = Standard deviation of temperature values

n = The number of data points (10 in this case)

 t_i = Each of the input temperature values

 \overline{t} = The average (mean) of all 10 input values.

Input

Input consists of a single line containing 10 space separated floating point values representing the temperature values to check.

Each temperature value, $t_1 ... t_{10}$ will be in the range (68 <= t <= 80)

Output

The output consists of a single line that has the string COMFY if the standard deviation of the input values is <= 1.0 or NOT COMFY if the standard deviation of the input values is > 1.0.

Sample 1:

Sample Input										Sample Output
79	78	78	79	79	77	78	78	77	78	COMFY

Sample 2:

Sample Input	Sample Output		
68.2 68 69.0004 68 69.8 70.123	NOT COMFY		
72 73.10009 74 75.0			

Note: The **Sample Input** for **Sample 2** is one single line. It is wrapped to two lines above so it fits in the table.