

Lab Hurricane Category

You are asked to write a hurricane classification program. Hurricanes are classified by maximum wind speed. Your function will take the maximum wind speed as input and return a number that indicates the classification. The ranges are speed ≥ 157 is Category 5, speed from 130-156 is Category 4, speed from 111-129 is Category 3, speed from 96-110 is Category 2, speed from 74-95 is Category 1. Anything else we will categorize as Category 0.

Input to the program will be from a file named "numbers.txt". Each line of the file will have the name of the Hurricane followed by the wind speed of the hurricane. You need to write the output of the program in a file named "category.txt". The sample input and output from the program is shown below:

Sample Input	Sample Output
Breezy 158	Breezy is Category 5 Hurricane
Hissing 112	Hissing is Category 3 Hurricane
Swift 98	Swift is Category 2 Hurricane
Grumpy 68	Grumpy is Category 0 Hurricane
Fierce 138	Fierce is Category 4 Hurricane
Defiant 95	Defiant is Category 1 Hurricane
Roasted 200	Roasted is Category 5 Hurricane