

Homework #3

1. Write a program to process a collection of daily high temperatures. Your program should count and print the number of hot days (high temperature 85 or higher), the number of pleasant days (high temperature 60-84), and the number of cold days (high temperatures less than 60). It should also display the category of each temperature.

- Test your program on the given file data1.txt.
- Modify your program to display the average temperature (a real number at the end of the run).

2. Write a program to display Numerical Diamond corresponding to your input number. For example, the following figures show the results of input number 3 and 4.

```
please input a number
3
===output===
  0
 111
22222
3333333
22222
 111
  0
```

```
please input a number
4
===output===
  0
 111
22222
3333333
444444444
3333333
22222
 111
  0
```