

EC 1003 程式設計

Spring 2018

Homework 2

Due: 23:55PM, Apr. 23

1. (Find the largest) Write a program that finds the largest of several integers. Assume that the first value read specifies the number of values remaining.
2. (Prob. 4.18) (***Bar-Chart Printing Program***) One interesting application of computers is drawing graphs and bar charts. Write a program that reads five numbers (each between 1 and 30). For each number read, your program should print a line containing that number of adjacent asterisks. For example, if your program reads the number seven, it should print `*****`. Randomly show three cases in your running results.
3. (Prob. 4.25) (***Table of Decimal, Binary, Octal and Hexadecimal Equivalents***) Write a program that prints a table of the binary, octal and hexadecimal equivalents of the decimal numbers in the range 1 through 256. If you are not familiar with these number systems, read Appendix C before you attempt this exercise. [*Note*: You can display an integer as an octal or hexadecimal value with the conversion specifiers `%o` and `%X`, respectively.]
4. (Prob. 5.18) (***Even or Odd***) Write a program that inputs a series of integers and passes them one at a time to function `isEven`, which uses the remainder operator to determine whether an integer is even. The function should take an integer argument and return 1 if the integer is even or 0 otherwise.

Hand in:

1. Source code (You must write comments in your codes.)
2. Running results