C Language Programming: Homework #6
Assigned on 12/06/2011(Thursday), Due on 12/13/2011(Tuesday)

This assignment alllows you to practice passing pointers to function into another function. Write a complet program to do the following:

1. Assume there is a function declared as (1) ***double power(double, int)*** that calculates x^n if we call power(x, n), a function declared as (2) ***double multiply(double, int)*** that calculate x*n if we call multiply(x, n), and a function declared as (3) ***double divide(double, int)*** that calculate x/n if we call divide(x, n), where x must be double and n be integer.
2. Write a function ***double powerpower(…)*** that can compute $(x^n)^m$, $(x*n)^m$, $(x/n)^m$, where powerpower() must use four parameters: a pointer to function, one double and two integers.
3. Also remember to write functions ***divide***(), ***multiply***() and ***power***()
4. use typedef to define a new type ***F*** which is a pointer to function
5. When executing your program, you can choose the values for x, n, and m by using argc and argv.
6. write the documentation