//**04-06** Illustrates overloading the function name ave.

//Overloaded name must have different numbers of formal parameters or some

// formal parameters of different type

//You cannot overload a function name that differ only in the type of value returned

// If two functions exist, one with int param., another with double param., f. call with

// int arguments runs function with int parameters

#include <iostream>

#include <conio.h>

using namespace std;

double ave(double n1, double n2); //two arguments

//Returns the average of the two numbers n1 and n2.

double ave(double n1, double n2, double n3); //three arguments

//Returns the average of the three numbers n1, n2, and n3.

int main( )

{

cout << "The average of 2.0, 2.5, and 3.0 is "

<< ave(2.0, 2.5, 3.0) << endl; //three arguments

cout << "The average of 4.5 and 5.5 is "

<< ave(4.5, 5.5) << endl; //two arguments

system("pause");

return 0;

}

double ave(double n1, double n2) // two arguments

{

return ((n1 + n2)/2.0);

}

double ave(double n1, double n2, double n3) //three arguments

{

return ((n1 + n2 + n3)/3.0);

}