計算機程式語言

作　　業 ____

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原始程式檔名	HW01*B03203004.cpp

評　分　項　目

分數比重	項　　目	得　分
40%	程式是否能正確執行?	
40%	程式之使用者介面與輸出結果?	
	是否有繳交原始程式檔與執行檔?	
	程式中的註解是否恰當?	
	程式之結構與邏輯是否正確?	
	程式碼的格式是否合乎要求?	
20%	程式之綜合評分	
總　分		

評語:

A.

```
//=============================================================
//  PROGRAMMER  : 潘廣霖
//  DATE        : 2015-09-30
//  FILENAME    : HW01AB03203004.CPP
//  DESCRIPTION : This is a program to produce a picture
//=============================================================

#include "stdafx.h"
#include<iostream>

using namespace std;

int main(int argc, _TCHAR* argv[])
{
        cout << "  |\\_/|    \n";
        cout << " / @ @ \\   \n";
        cout << "( > o < )  \n";
        cout << " `>>x<<\   \n";
        cout << " /  O  \\   \n";
        cin.get();
        return 0;
}
```

B.

```
//=============================================================
//  PROGRAMMER  : 潘廣霖
//  DATE        : 2015-09-30
//  FILENAME    : HW01BB03203004.CPP
//  DESCRIPTION : This is a program to compute the average of three integers
//=============================================================

#include "stdafx.h"
#include<iostream>
using namespace std;

int main() {
        double grade1;
        double grade2;
        double grade3;
        double total;
        double average;

        grade1 = 85.5;
        grade2 = 90.0;
        grade3 = 94.0;
        total = grade1 + grade2 + grade3;
        average = total / 3.0;

        cout << "(Given that grade3 = " << grade3 << ",) the average grade is " <<
average << endl;

        cin.get();
        return 0;
}
```

C.

```
//=============================================================
//  PROGRAMMER  : 潘廣霖
//  DATE        : 2015-09-30
//  FILENAME    : HW01CB03203004.CPP
//  DESCRIPTION : This is a program simulating p2.11 in textbook
//=============================================================

#include "stdafx.h"
#include<iostream>
using namespace std;

int main() {
        double speed, fe, fr;
        fe = 2e10;
        fr = 2.00000035e10;

        speed = 6.685e8 * (fr - fe) / (fr + fe);
        cout << "The speed is " << speed << " miles/hour " << endl;
        cin.get();
        return 0;
}
```

D.

```
//=============================================================
//  PROGRAMMER  : 潘廣霖
//  DATE        : 2015-09-30
//  FILENAME    : HW01DB03203004.CPP
//  DESCRIPTION : This is a program to calculate the result of a mathematical
formula
//=============================================================

#include "stdafx.h"
#include<iostream>

using namespace std;

int main(int argc, _TCHAR* argv[])
{
        double F = 4.0;
        double k = 1e3;
        double l = 3000.0;
        double w = 40;
        double d = 2;

        double ep_Al = 68950;
        double ep_Cu = 11e4;

        double I_Al = F * k * l / (w * d * ep_Al);
        cout << "The increase in length of a slab of aluminum is: " << I_Al <<
endl;

        double I_Cu = F * k * l / (w * d * ep_Cu);
        cout << "The increase in length of a slab of copper   is: " << I_Cu <<
endl;

        cin.get();
        return 0;
}
```