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Kahlil Bello

September 12, 2018

Project 2 Prob 1

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#include <iostream>

#include<string>

#include<cstring>

using namespace std;

template<class T>

void display(T x, int n)

{

//function to display arrays

for (int i = 0; i < n; ++i)

{

cout << x[i] << " ";

}

cout << endl;

}//end display

int main()

{

string day[5] = { "monday", "Tue", "Wednesday", "Thursday", "Friday" };

char days[5][10] = {"Monday", "Tuesday","wednesday", "Thu", "Friday"};

//Prob 1-A display both arrays

cout << "This is array day" << endl;

display(day, 5);

cout << "This is array days" << endl;

display(days, 5);

//Prob 1-B change strings/characters

day[0][0] = toupper(day[0][0]);

days[3][0] = toupper(days[3][0]);

cout << "From Array day: " << day[0] << endl;

cout << "From Array days: " << day[3] << endl;

//Prob 1-C display length of tuesday in both arrays

cout << "Length of Tue is " << day[1].length() << " and the length of Tuesda is " << strlen(days[1]) << endl;

system("pause");

return 0;

}

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OUTPUT:

This is array day

monday Tue Wednesday Thursday Friday

This is array days

Monday Tuesday wednesday Thu Friday

From Array day: Monday

From Array days: Thursday

Length of Tue is 3 and the length of Tuesda is 7

Press any key to continue . . .

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Project 2 Prob 2

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#include <iostream>

#include<string>

#include<cmath>

using namespace std;

long int sum(int n, int m)

{

if (n == m)

{

return m;

}

else

{

return (n + sum(n + 1, m));

}

}//end sum

long int g(int n)

{

if (n <= 3)

{

return 2;

}

else

{

return (n + g(n - 1) + g(n - 2));

}

}//end g

long int f(int n)

{

if (n == 2)

{

return 9;

}

else

{

return(f(n-1)+pow(3,n));

}

}//end f

int main()

{

//Prob 2-A

cout << sum(5, 10) << "\n\n";

//Prob 2-B

cout << g(10) << "\n\n";

//Prob 2-C

cout << f(10) << "\n\n";

system("pause");

system("pause");

return 0;

}

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Project 2 Prob 2

//OUTPUT

45

246

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Press any key to continue . . .

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