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Date when code was written: 2013

Directory structure: Array processing

1. **Using for each to show the array**
2. **Using pointer array to display**
3. **Finding the element of array**
4. **Removing the element of array**
5. **Inserting the element of array**

// Course.cpp:

#include "stdafx.h"

#include "iostream"

using namespace System;

using namespace System::Collections;

int main(array<System::String ^> ^args)

{

ArrayList ^a1 = gcnew ArrayList();

a1->Add("a");

a1->Add("p");

a1->Add("p");

a1->Add("l");

a1->Add("e");

Console::WriteLine("========== 1. 以for each顯示陣列 =====================");

for each(Object ^show1 in a1)

Console::Write("{0} ",show1);

Console::WriteLine("\n");

Console::WriteLine("========== 2. 以陣列指標顯示陣列值 ===================");

for(int i=0;i<a1->Count;i++)

Console::Write("{0} ",a1[i]);

Console::WriteLine("\n");

Console::WriteLine("========== 3. 尋找陣列元素 l 在陣列中的位置 ==========");

int x = a1->IndexOf("l");

Console::Write("陣列元素第{0}個的值 = {1}",x+1,a1[x]);

Console::WriteLine("\n");

Console::WriteLine("========== 4. 移除陣列第n個元素後 ====================");

a1->RemoveAt(x);

Console::Write("移除陣列第{0}個元素後 = ",x+1);

for each(Object ^show1 in a1)

Console::Write("{0} ",show1);

Console::WriteLine("\n");

Console::WriteLine("========== 5. 在第2個元素位置插入QQ字串後 ============");

a1->Insert(1,"QQ");

for each(Object ^show1 in a1)

Console::Write("{0} ",show1);

Console::WriteLine("\n");

Console::WriteLine("========== 6. 移除指定的陣列元素 e 後 ================");

a1->Remove("e");

for each(Object ^show1 in a1)

Console::Write("{0} ",show1);

Console::WriteLine("\n");

system("pause");

return 0;

}