﻿using System;

using Microsoft.VisualStudio.TestTools.UnitTesting;

using System.Collections.Generic;

using SecurityLibrary.DiffieHellman;

namespace SecurityPackageTest

{

[TestClass]

public class DiffieHellmanTest

{

[TestMethod]

public void DeffieHelmanTest1()

{

DiffieHellman algorithm = new DiffieHellman();

List<int> key = algorithm.GetKeys(19, 2, 6, 13);

Assert.AreEqual(key[0], 7);

Assert.AreEqual(key[1], 7);

}

[TestMethod]

public void DeffieHelmanTest2()

{

DiffieHellman algorithm = new DiffieHellman();

List<int> key = algorithm.GetKeys(353, 2, 97, 233);

Assert.AreEqual(key[0], 81);

Assert.AreEqual(key[1], 81);

}

[TestMethod]

public void DeffieHelmanTest3()

{

DiffieHellman algorithm = new DiffieHellman();

List<int> key = algorithm.GetKeys(353, 3, 97, 233);

Assert.AreEqual(key[0], 160);

Assert.AreEqual(key[1], 160);

}

[TestMethod]

public void DeffieHelmanNewTest()

{

DiffieHellman algorithm = new DiffieHellman();

List<int> key = algorithm.GetKeys(541, 10, 50, 100);

Assert.AreEqual(key[0], 449);

Assert.AreEqual(key[1], 449);

}

}

}