﻿using System;

using Microsoft.VisualStudio.TestTools.UnitTesting;

using SecurityLibrary.RSA;

namespace SecurityPackageTest

{

//[Ignore]

[TestClass]

public class RSATest

{

[TestMethod]

public void RSATestEnc1()

{

RSA algorithm = new RSA();

int cipher = algorithm.Encrypt(11, 17, 88, 7);

Assert.AreEqual(cipher, 11);

}

[TestMethod]

public void RSATestDec1()

{

RSA algorithm = new RSA();

int plain = algorithm.Decrypt(11, 17, 11, 7);

Assert.AreEqual(plain, 88);

}

[TestMethod]

public void RSATestEnc2()

{

RSA algorithm = new RSA();

int cipher = algorithm.Encrypt(13, 19, 65, 5);

Assert.AreEqual(cipher, 221);

}

[TestMethod]

public void RSATestDec2()

{

RSA algorithm = new RSA();

int plain = algorithm.Decrypt(13, 19, 221, 5);

Assert.AreEqual(plain, 65);

}

[TestMethod]

public void RSATestEnc3()

{

RSA algorithm = new RSA();

int cipher = algorithm.Encrypt(61, 53, 70, 7);

Assert.AreEqual(cipher, 2338);

}

[TestMethod]

public void RSATestDec3()

{

RSA algorithm = new RSA();

int plain = algorithm.Decrypt(61, 53, 2338, 7);

Assert.AreEqual(plain, 70);

}

[TestMethod]

public void RSATestNewEnc()

{

RSA algorithm = new RSA();

int cipher = algorithm.Encrypt(257, 337, 18537, 17);

Assert.AreEqual(cipher, 12448);

}

[TestMethod]

public void RSATestNewDec4()

{

RSA algorithm = new RSA();

int plain = algorithm.Decrypt(257, 337, 12448, 17);

Assert.AreEqual(plain, 18537);

}

}

}