Encoded-Answer

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Problem\_02

{

class EncodedAnswer

{

static void Main()

{

int number = int.Parse(Console.ReadLine());

uint[] arrayAnswer = new uint[number];

int countA = 0;

int countB = 0;

int countC = 0;

int countD = 0;

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

{

arrayAnswer[i] = uint.Parse(Console.ReadLine());

}

uint remainder = 0;

string[] newArrayLetters = new string[number];

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

{

remainder = arrayAnswer[i] % 4;

switch (remainder)

{

case 0:

newArrayLetters[i] = "a";

countA++;

break;

case 1:

newArrayLetters[i] = "b";

countB++;

break;

case 2:

newArrayLetters[i] = "c";

countC++;

break;

default:

newArrayLetters[i] = "d";

countD++;

break;

}

}

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

{

Console.Write("{0} ", newArrayLetters[i]);

}

Console.WriteLine();

Console.WriteLine("Answer A: {0}", countA);

Console.WriteLine("Answer B: {0}", countB);

Console.WriteLine("Answer C: {0}", countC);

Console.WriteLine("Answer D: {0}", countD);

}

}

}