Given some color in the rgb format, your task is to convert it into the hsv format. The result should be an array of three formatted numbers, where:

* the first number is the Hue value rounded to the nearest integer;
* the second number is the Saturation value in percent rounded to the 10th place;
* the third number is the Value value in percent rounded to the 10th place.

**Example**

For rgb = [200, 125, 100], the output should be  
rgb2hsv(rgb) = ["15", "50.0", "78.4"].

**Input/Output**

* **[time limit] 3000ms (cs)**
* **[input] array.integer rgb**

An array of three integers representing the R, G, and B values of the color, respectively.

*Constraints:*  
rgb.length = 3,  
0 ≤ rgb[i] ≤ 255.

* **[output] array.string**

An array of 3 strings representing the color in the HSV format as described above.

<https://codefights.com/challenge/pESxR7nBYFjtZFWjk?utm_source=featuredChallenge&utm_medium=email&utm_campaign=email_notification>

<http://www.rapidtables.com/convert/color/rgb-to-hsv.htm>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static string[] rgb2hsv(int[] rgb)

{

double r\_prima = (double)rgb[0] / 255.0;

double g\_prima = (double) rgb[1] / 255.0;

double b\_prima = (double) rgb[2] / 255.0;

double Cmax = new double[] { r\_prima, g\_prima, b\_prima }.Max();

double Cmin = new double[] { r\_prima, g\_prima, b\_prima }.Min();

double delta = Cmax - Cmin;

double H = 0;

if (delta == 0)

{

H = 0;

} else if (Cmax == r\_prima)

{

H = 60.0 \* (((g\_prima - b\_prima) / delta) % 6.0);

}

else if (Cmax == g\_prima)

{

H = 60.0 \* (((b\_prima - r\_prima) / delta) + 2.0);

}

else if (Cmax == b\_prima)

{

H = 60 \* (((r\_prima - g\_prima) / delta) + 4.0);

}

H = Math.Round(H);

double S = 0;

if (Cmax != 0)

{

S = (delta / Cmax)\*100.0;

}

double V = Cmax \* 100.0;

if (H < 0)

H += 360;

return new string[] { H.ToString(), S.ToString("0.0"), V.ToString("0.0") };

}

static void Main(string[] args)

{

// int[] rgb = { 24, 251, 63 };

// int[] rgb = { 200, 125, 100 };

//int[] rgb = { 255, 0, 255 };

int[] rgb = { 255, 255, 255 };

foreach (string elem in rgb2hsv(rgb))

{

Console.Write(elem + " ");

}

Console.ReadLine();

}

}

}