Problem 2
Colors in Java can be represented by objects of type *Color*. Each such object contains the *red*, *green* and *blue* components of the corresponding color as integer values from 0 to 255. Consider below a Java code that creates and initializes a rectangular array of *Color* type:

Continue with a Java code that creates another array Color[][][g] of the same size and fills it with gray equivalents of the colors from the array Color[][][g]. To get a grey equivalent of a given color c[i][[g]][g], it is enough to construct a Color object, whose red, green and blue components all are equal to the calculated average of red, green and blue components of the initial c[i][g]. Use $int \ getRed(g)$, $int \ getGreen(g)$ and $int \ getBlue(g)$ methods of class Color.

John [3] [g = new Colon [c.length] [c.length];

for (int 10w1:0. 20w1.g.length; 20w1.t)

for (int col 1:0. col 1:2. 5.03.length; coll+)

g [row 1] [col 1]: new Colon [get Great] get theth);

from 1] [col 1]: new Colon [get get hood () int get Bree

int get thetw];

for (int 10w 1:0. 20w 1:0. 20w 1:2.g. length. 20w 1:1

for (int 10w 1:0. 20w 1:0. 20w 1:2.g. length. 20w 1:1

for (int 10w 1:0. 20w 1:0. 20w 1:2.g. length. 20w 1:1

for (int 10w 1:0. 20w 1:0. 20w 1:2.g. length. 20w 1:1

for (int 10w 1:0. 20w 1:0. 20w 1:2.g. length. 20w 1:2.g. le

Use the backside, if needed

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