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:

OOP-MT1. 150215 L136

Name and, if possible, ID#:_

Similar to files, strings also can be related to streams in C++, this time using stringstream objects. Problem 3 Particularly, it is enough to create an object of type istringstream to organize formatted reading from a string. Consider, for example, a C++ code below:

```
#include <string>
#include <sstream>
#include <iostream>
using namespace std;
void main()
      string text = "Before_increment: 199999999", word;
      int num;
      istringstream tokens(text);
      tokens >> word >> num;
      cout << "After " << word.substr(7) << num + 1 << endl;</pre>
// After increment:200000000
```

Write a C++ function double value(string expression) that takes as its argument a string representing an arithmetic expression, evaluates it and returns its value. The expression includes only '+' and '-' operations and double operands, both positive and negative. The operands and operations are delimited by spaces.

For example, value("5.1 - -0.7 + 1.2") results in 7.0.

```
double voc lue ( string expression
 strings; doleble neem: voel=0.00; chout;
   cin >> S',
   istring streen to bons (s)
         ushilo (tonces >> num >> +) {
           voct = voel + mes
            val: voel+++ men;]
            cout cavo
                                      4/9=0
       return? see AS, NG, TH, AA, NA, AH, US, AM
```

OOP MI1 170215 L136