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/*-----  
File name      : ProgramTest.java  
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Created      : 3 nov. 2022  
Description   : Tests for the main program  
Remark(s)    : Use "mvn clean test" command to launch the test  
JDK          : OpenJDK Runtime Environment Temurin-17.0.5+8 (build 17.0.5+8)  
-----*/  
package ch.heigvd.poo.labo5;  
  
import org.junit.jupiter.api.Test;  
import java.util.Arrays;  
  
public class ProgramTest {  
    @Test  
    //Note: We cannot assert anything in those tests because the main function  
    // does not return anything and all the exceptions are catch inside it;  
    //We can only verify that the program runs as expected by looking at the console  
    public void testTheMainProgram() {  
  
        String[][] argList = {  
            //The program should show correct matrices (nominal case)  
            {"4", "5", "2", "7", "100"},  
  
            // The program should display an exception about the illegal  
            // character in the argument array  
            {"4", "5", "2", "7", "test"},  
  
            // The program should display an error exception the non-integer  
            // value in the argument array  
            {"4", "5", "2", "7", "0.42"},  
  
            //The program should display an exception about the wrong number of  
            // arguments given  
            {"4", "5", "2", "7"};};  
  
        for(String[] args : argList){  
            System.out.println("Running the program with " + Arrays.toString(args) +  
                "as arguments");  
            Program.main(args);  
        }  
    }  
}
```