

Philip Pesic

Week 12

April 9 2023

Week 12 Prog 2

Write a small program. Declare an array of doubles, and initialize them all to zero.

What is the largest array your system lets you allocate, without an error ?

Try 10, then 100, then 1000, then 10000, etc.. play with it on your system tell you find the largest size.

Do you think other systems would have different sizes, why or why not ? (Google it)

```
package Prog2;
import java.util.Arrays;

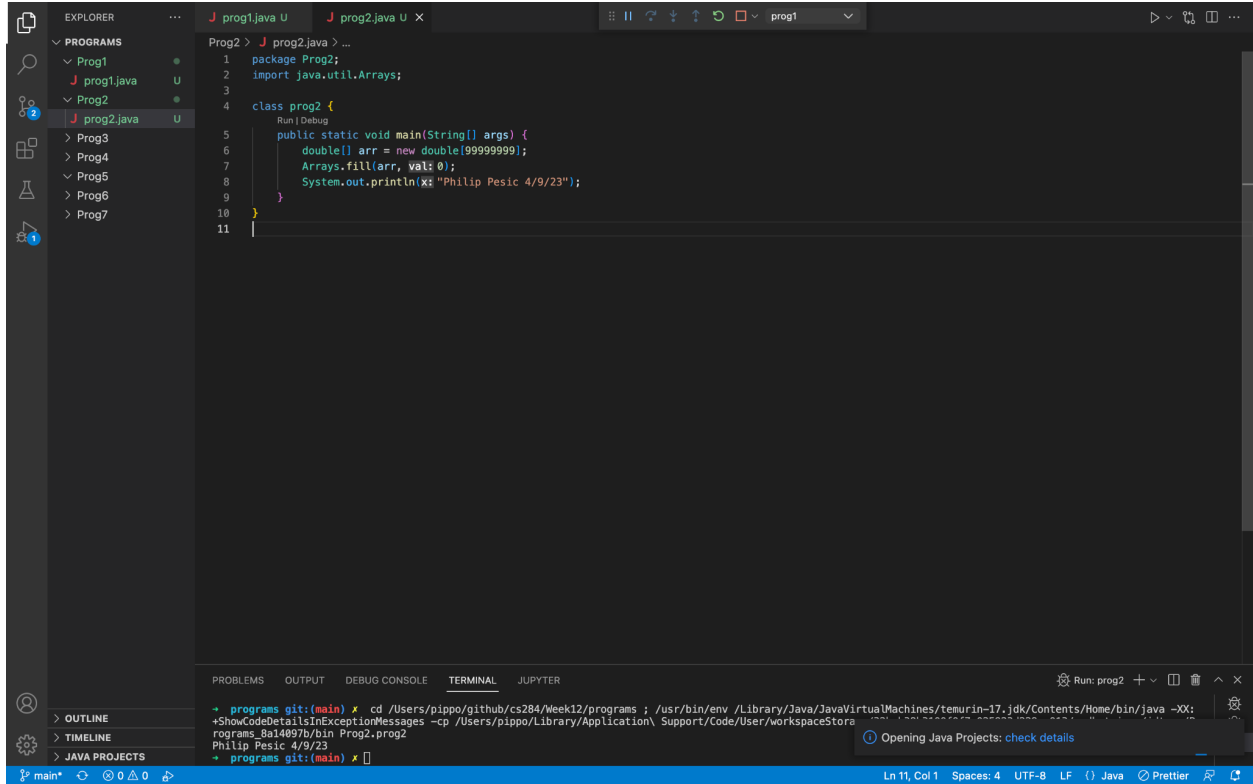
class prog2 {
    public static void main(String[] args) {
        double[] arr = new double[99999999];
        Arrays.fill(arr, 0);
        System.out.println("Philip Pesic 4/9/23");
    }
}
```

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The screenshot shows an IDE with a dark theme. The Explorer panel on the left shows a project structure with folders 'PROGRAMS' and 'PROG2'. The 'PROG2' folder is expanded, showing 'prog2.java'. The main editor displays the code for 'prog2.java':

```
1 package Prog2;
2 import java.util.Arrays;
3
4 class prog2 {
5
6     public static void main(String[] args) {
7         double[] arr = new double[999999999];
8         Arrays.fill(arr, val: 0);
9         System.out.println("Philip Pesic 4/9/23");
10    }
11 }
```

The bottom panel shows the 'TERMINAL' tab with the following output:

```
+ programs git:(main) * cd /Users/pipipo/github/cs284/Week12/programs ; /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:
+ShowCodeDetailsInExceptionMessages -cp /Users/pipipo/Library/Application\ Support/Code/User/workspaceStor
programs_8a14897b/bin Prog2.prog2
Philip Pesic 4/9/23
+ programs git:(main) *
```

The status bar at the bottom indicates 'Ln 11, Col 1', 'Spaces: 4', 'UTF-8', 'LF', 'Java', and 'Prettier'.

I learned that the max array size in java is 999999999