errCSC1003 Practice Outline Sep 26-30

Programming exercises about data types and type conversion.

1. Write a program that takes two positive integers as command-line arguments and prints true if either evenly divides the other. You might need % (to check divisible) and boolean operations. (You can use the LeapYear test program in the lecture notes as the reference.)

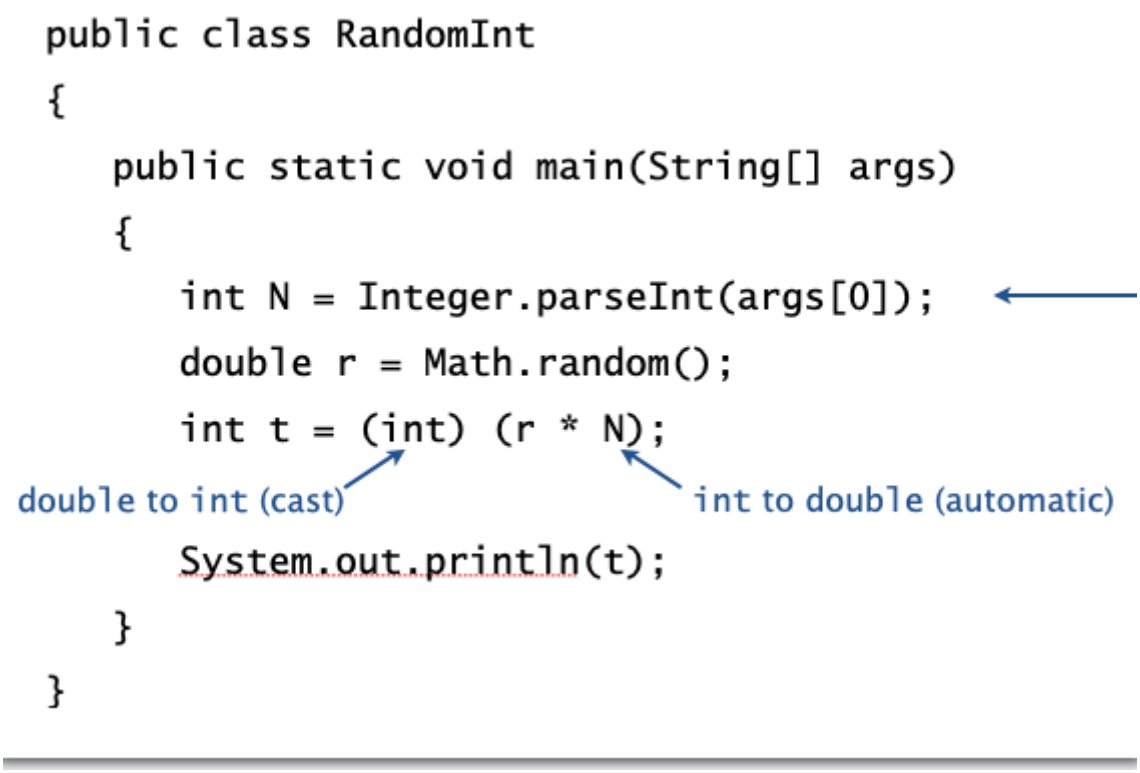
```
public class LeapYear
{
   public static void main(String[] args)
   {
      int year = Integer.parseInt(args[0]);
      boolean isLeapYear;

      // divisible by 4 but not 100
      isLeapYear = (year % 4 == 0) && (year % 100 != 0);

      // or divisible by 400
      isLeapYear = isLeapYear || (year % 400 == 0);

      System.out.println(isLeapYear);
   }
}
```

2. Write a program that prints the sum of two random integers between 1 and 6 (such as you might get when rolling dice). This program does not need the input. You can use the RandomInt program in the lecture notes as the reference.



3. [Optional] Order check. Write a program that takes three double command-line arguments x, y, and z and prints true if the values are strictly ascending or descending (x < y < z or x > y > z), and false otherwise.