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midterm1-prep-inclass-sol.txt
1.
  public static void problem1()
     for (int i = 3; i < 61; i += 3)
        if (i % 2 == 0) {
           System.out.println(i);
  }
2.
  public static int[] reverseArray(int[] array)
     int[] rev = new int[array.length];
     int j = array.length-1;
     for (int i = 0; i < rev.length; i++)
        rev[i] = array[j];
       j--;
     return rev;
  }
3.
  public static int countZeroRows(int[][] matrix)
     int count = 0;
     for (int row = 0; row < matrix.length; row++)
        for (int col = 0; col < matrix[row].length; col++)
           if (matrix[row][col] == 0) {
             count++;
             break; // skip the rest of this row once a zero is found
        }
```

return count;

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}
3. (another way)
  public static int countZeroRows(int[][] matrix)
     int countRowsWithAZero = 0;
     for (int row = 0; row < matrix.length; row++)
       int countZerosOnThisRow = 0;
       for (int col = 0; col < matrix[row].length; col++)
       {
          if (matrix[row][col] == 0) {
             countZerosOnThisRow++;
          }
       if (countZerosOnThisRow >= 1) {
          countRowsWithAZero++;
       }
     return countRowsWithAZero;
  }
4.
public class Die {
  private int roll;
  public Die()
     roll = (int)(Math.random() * 6 + 1); // roll the die the first time
  }
  public int roll() {
     roll = (int)(Math.random() * 6 + 1);
     return roll; // could also make a void function and not return anything
  }
  public int getCurrentRoll() {
     return roll;
}
```

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5.
(continuation of the main function:)
Date bday = new Date(m, d, 2021);
Date today = new Date(10, 6, 2021);
int daysBetween = bday.daysBetween(today); // get days between today and bday
if (today.isBefore(bday)) {
    System.out.println("Your birthday hasn't arrived this year yet.");
    System.out.println("It is " + daysBetween + " days away!");
} else if (bday.isBefore(today)) {
    System.out.println("Your birthday has already occurred this year.");
    System.out.println("It is " + daysBetween + " past your birthday.");
} else {
        System.out.println("Today is your birthday!");
}
// You could also use the equal() method to test if today is your birthday.
```