

Andy Cherney

Week6Meet - 10 pts

Turn in on BBL as soon as complete, but before end of day Sunday following the lecture.

Answer these questions as we progress through the meeting.

1. Declare an array of type int that will hold 50 numbers:

```
int [] nums = new int [50];
```

2. Declare an array of type String that will hold the inner planets:

```
String [] planets = {"Mercury", "Venus", "Earth", "Mars", "Jupiter", "Saturn", "Uranus", "Neptune"};
```

3. Print out Earth from the previous array.

```
System.out.print(planets[2]);
```

4. What is the error you get when you attempt to access an array element that is outside of the length of the array?

```
ArrayIndexOutOfBoundsException
```

5. Write a method that takes in an array as a parameter and prints each element in the array on its own line:

```
public static void printNames(String [] names){  
    for (String name: names){  
        System.out.println(name);  
    }  
}
```

6. Assuming we have a Planet class that encapsulates data on a planet, write a new array declaration for all the planets in our solar system that uses the Planet class:

```
Planet [] planets = new Planet [9];
```

7. Declare a 2D array representing the seating on a plane. Populate it with typical seat references of row and letter such as 10C or 22A (using a nested loop):

```
String [] sections = {"A", "B", "C"};  
int planeLength = 10;
```

```
String [][] planeSeats = new String [planeLength][sections.length];
```

```
for (int row = 1; row <= planeLength; row++){  
    for (int section = 1; section <= sections.length; section++){  
        planeSeats[row-1][section-1] = row+sections[section-1];  
    }  
}
```

8. Finish implementing the RosterTester class by adding students to the rosters, either by random generation of information, or use input functionality

See RosterTester.java for white box tests code

```
You will add the same 4 students to both rosters
Enter first name: Andy
Enter last name: Cherney
Enter student id: alc466
Enter pronouns: he/him
Enter anticipated graduation year: 2025

Enter first name: John
Enter last name: Doe
Enter student id: jd324
Enter pronouns: he/him
Enter anticipated graduation year: 2026

Enter first name: Jane
Enter last name: Doe
Enter student id: jd687
Enter pronouns: she/her
Enter anticipated graduation year: 2023

Enter first name: Molly
Enter last name: Sanchez
Enter student id: ms107
Enter pronouns: she/her
Enter anticipated graduation year: 2024

Intro to Programming with Java
CS501
[LStudent;@63961c42
Freshman Design
getCourseName: Passed
CI10X
[LStudent;@65b54208
Intro to Programming with Java CS501 Roster
Andy Cherney alc466
John Doe jd324
Jane Doe jd687
Molly Sanchez ms107
null
null
null
null
null
null
null

Freshman Design CI10X Roster
Andy Cherney alc466
John Doe jd324
Jane Doe jd687
Molly Sanchez ms107
```

Reflect on your learning and your needs. After this class meeting, what topics do you feel like you learned and what topics do you feel like you need more information on to learn?

I would say I learned about arrays and their differences to ArrayLists. I learned about parallel arrays, 2d and higher dimensional arrays, methods with an unknown number of parameter, and also how to loop over the arrays.