

COMP202

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Oblivious Prisoner's Dilemma:

Two accomplices are arrested. Due to insufficient evidence for a conviction, the police offer each prisoner a choice. If one testifies against the other, then the other will get sentenced to 10 years (and the betrayer will go free). If they both remain silent, they will both be sentenced to two years and if they both confess, then they will both receive a five-year sentence.

Write a program that presents the user with two choices (Confess or not) and randomly generates the choice of the other prisoner (i.e. indicating whether or not he confesses) and then announce the sentence.

Clum Z. University:

A fictitious university hires you to implement a program storing information about their students. Since the program is in its initial stages, you only have to represent each student with their name and a randomly assigned 8-digit student number that starts with 2007. Complete the following implementation:

```
import java.util.*;
public class clumZ
{
    private String firstName;
    private String lastName;
    private long studentID;

    //Constructor
    public clumZ(String inputFirst, String inputLast)
    {
        // Initialize the student's name to the given inputName

        // Assign a randomly generated 8-digit student number that starts with 2007

    }

    // Implement methods that return a student's name and ID

    // Implement methods that set student's name (first and last) to new values

    // Display student's information in a proper format:
    public void print()
    {
```

```
}
```

```
// Implement the following method that removes any typos in student's name
```

```
public void correct()
```

```
{
```

```
    // Check that student's name starts in an upper case letter and the
```

```
    // following letters are all in lower case. If not, correct the format.
```

```
}
```

```
}
```

```
import java.util.Scanner;
```

```
public class clumZTest
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        /**
```

```
        * Create four students of your choice:
```

- * - Print their information
- * - Ensure that at least one has a formatting typo in it
- * - Correct the error using your correct() method
- * */

}

}