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```java
import static java.lang.System.out;
import java.util.*;

public class StuTest
{
    private static Scanner keyboard = new Scanner(System.in);

    public static void main(String[] args)
    {
        int[][] testScores; // [students][tests]
        String[] stuNames;

        testScores = createArray();
        out.println(testScores.length + " student(s) took " +
            testScores[0].length + " test(s).\n");

        stuNames = new String[testScores.length];
        populateNames(stuNames);

        //populateTestScores(stuNames,testScores);

        printStudentReport(stuNames,testScores);
        printTestReport(stuNames,testScores);
    }

    public static int[][] createArray()
    {
        /* Random rand = new Random();
        int students = rand.nextInt(5) + 1;
        int tests = rand.nextInt(4) + 1;
        return new int[students][tests];
        */
        int[][] temp =
        {
            {99, 90, 40},
            {87, 85, 100},
            {77, 79, 85},
            {88, 90, 84}
        };
        return temp;
    }

    public static void populateNames(String[] names)
    {
        for(int i = 0; i<names.length; i++)
        {
            out.print("Enter student " + (i+1) + " name: ");
            names[i] = keyboard.next();
        }
    }

    // Code your 3 methods below...
    public static void printStudentReport(String[] names, int[][]scores)
    {
        System.out.println("There are " + scores.length + " students "
            + "and " + scores[0].length + " tests.");
    }
```

code your 3 methods below

```java
}
```

```
SAMPLE OUTPUT 1:

5 student(s) took 2 test(s).

Enter student 1 name: Fred
Enter student 2 name: Sue
Enter student 3 name: Ed
Enter student 4 name: Mary
Enter student 5 name: Tom

Entering scores for Fred:
     Enter score for test #1: 78
     Enter score for test #2: 80

Entering scores for Sue:
     Enter score for test #1: 91
     Enter score for test #2: 94

Entering scores for Ed:
     Enter score for test #1: 65
     Enter score for test #2: 90

Entering scores for Mary:
     Enter score for test #1: 100
     Enter score for test #2: 98

Entering scores for Tom:
     Enter score for test #1: 93
     Enter score for test #2: 87
```

Method 1

```
STUDENT REPORT
Scores for Fred:
     Test #1: 78
     Test #2: 80
     Average for Fred: 79.0
Scores for Sue:
     Test #1: 91
     Test #2: 94
     Average for Sue: 92.5
Scores for Ed:
     Test #1: 65
     Test #2: 90
     Average for Ed: 77.5
Scores for Mary:
     Test #1: 100
     Test #2: 98
     Average for Mary: 99.0
Scores for Tom:
     Test #1: 93
     Test #2: 87
     Average for Tom: 90.0
```

Method 2

```
TEST REPORT
Scores for test1:
     Fred: 78
     Sue: 91
     Ed: 65
     Mary: 100
     Tom: 93
```

```
        Test #1 average: 85.4
Scores for test2:
    Fred: 80
    Sue: 94
    Ed: 90
    Mary: 98
    Tom: 87
    Test #2 average: 89.8

SAMPLE OUTPUT 2:

2 student(s) took 4 test(s).

Enter student 1 name: Jane
Enter student 2 name: John

Entering scores for Jane:
    Enter score for test #1: 95
    Enter score for test #2: 92
    Enter score for test #3: 90
    Enter score for test #4: 100

Entering scores for John:
    Enter score for test #1: 89
    Enter score for test #2: 90
    Enter score for test #3: 86
    Enter score for test #4: 97

STUDENT REPORT
Scores for Jane:
    Test #1: 95
    Test #2: 92
    Test #3: 90
    Test #4: 100
    Average for Jane: 94.25
Scores for John:
    Test #1: 89
    Test #2: 90
    Test #3: 86
    Test #4: 97
    Average for John: 90.5

TEST REPORT
Scores for test1:
    Jane: 95
    John: 89
    Test #1 average: 92.0
Scores for test2:
    Jane: 92
    John: 90
    Test #2 average: 91.0
Scores for test3:
    Jane: 90
    John: 86
    Test #3 average: 88.0
Scores for test4:
    Jane: 100
    John: 97
    Test #4 average: 98.5
```

Method 3 *4*

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