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import java.util.Scanner;
import java.io.*;
import java.util.Random;
import java.text.DecimalFormat;
public class tableGen {
    private static int maxClassroom = 100, maxStudent = 4000, maxDepartment
= 50,
    maxRoom = 1000, maxCourse = 1000, maxSection = 2000, maxAdvisor =
4000,
    maxInstructor = 1000, maxTeaches = 5000, maxTakes= 40000, maxPrereq =
1000;
    private static int maxBuilding = 100, maxName = 4200, maxDept = 100,
maxTitle = 1000;
    private static double maxSalary = 100000.0;
    private static double maxBudget = 999999.0;
    private static int maxID = 99999;
    private static Random rnd = new Random();
    private static String[] buildingArray = new String[maxBuilding];
    private static String[] nameArray = new String[maxName];
    private static String[] deptNameArray = new String[maxDept];
    private static String[] titleArray = new String[maxTitle];
    private static Boolean[] teachesArray = new Boolean[maxSection];
    private static int[] nextCourseSection = new int[1000]; // starts at 0
    private static DecimalFormat moneyFormat = new DecimalFormat("0.00");

    //primary keys
    // classroom
    private static String[] classroomBuilding = new String[maxClassroom];
    private static int[] classroomRoom = new int[maxRoom];
    // department
    private static String[] departmentDeptName = new String[maxDepartment];
    // course
    private static int[] courseCourseID = new int[maxCourse];
    // store course dept for integrity check
    private static String[] courseDept = new String[maxCourse];
    // instructor
    private static int[] instructorID = new int[maxInstructor];
    // store instructor dept for integrity check
    private static String[] instructorDept = new String[maxInstructor];

```