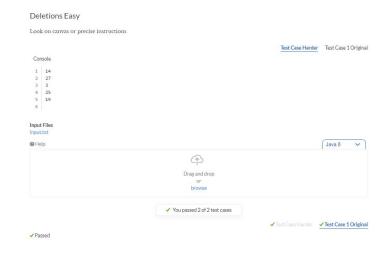
```
Deletions Easy
/* Saket Bakshi. AP Computer Science A. Deletions Easy. Due March 10, 2019.
This class solves the Deletions Easy problem.
public class DeletionsEasyV2
{
       private boolean isCleared; //variable to judge if problem is solved
       private int[] input; //holds the problem sequence
       private int inputLength; //length of sequence
       private int steps; //steps to solve sequence
       /**
               This takes an integer array and solves it according to the rules of the deletions
easy directions.
               @param initialSequence the initial array
       */
       public DeletionsEasyV2(int[] initialSequence)
               isCleared = false;
              input = initialSequence;
               inputLength = initialSequence.length;
               steps = 0;
       }
               This takes an integer array and solves it according to the rules of the deletions
easy directions.
       */
       public DeletionsEasyV2()
       {
               isCleared = false;
              input = new int[100];
              inputLength = 0;
               steps = 0;
       }
       /**
               This solves the sequence
       */
       public void doTurn()
       {
              int zeroPlaceholder = 0; //sees if there are zeros, finds location of the rightmost 0.
```

```
for(int i = 0; i < input.length; i++)
               {
                        if(input[i] == 0)
                        {
                                zeroPlaceholder = i;
                        }
               }
               if(zeroPlaceholder != 0) //if there is a 0 and it isn't the first digit
               {
                        int[] holder = new int[input.length - zeroPlaceholder - 1];
                        for(int j = 0; j < holder.length; j++) //cut the input from the beginning to the
rightmost 0
                       {
                                holder[j] = input[input.length - holder.length + j];
                        }
                        input = holder;
                        inputLength = input.length;
                        steps++;
               else if(zeroPlaceholder == 0 && input.length == 1 && input[0] == 0) //if there is a
0 in the first part of a 1 digit array
               {
                        int[] holder = new int[0];
                        input = holder;
                        steps++; //clear the array and add a step
               }
               checkIfClear();
               if(input.length !=0) //if the array isn't clear
               {
                        int max = input[0];
                        int placeholder = 0;
                        for(int i = 1; i < inputLength; i++) //find the rightmost maximum and its
place
                       {
                                if(input[i] > max)
                                {
                                        max = input[i];
                                if(input[i] == max)
```

```
{
                              placeholder = i;
                      }
               }
               if(input[placeholder] % 2 == 0) //if even, subtract max by 2
               {
                       input[placeholder] = input[placeholder] - 2;
               }
               else //if odd, subtract max by 1
                       input[placeholder] = input[placeholder] - 1;
               }
               steps++;
       }
}
/**
       Checks if the solution has been solved.
public void checklfClear()
       if(input.length == 0)
               isCleared = true;
}
/**
       Returns if the solution has been solved.
       @return if the solution is solved
*/
public boolean isClear() {return isCleared;}
/**
       Returns the input length.
        @return the length of the input
public int inpLength() {return inputLength;}
/**
       Returns if the number of steps taken to solve the problem.
        @return the number of steps
*/
public int howManySteps() {return steps;}
```

```
/* Saket Bakshi. AP Computer Science A. Deletions Easy. Due March 10, 2019.
This class tests the Deletions Easy problem.
*/
import java.util.Scanner;
import java.io.File;
import java.io.FileNotFoundException;
public class Main
       public static void main(String[] args) throws FileNotFoundException
       {
               File inFile = new File("input.txt"); //input file and scanner
               Scanner scanned = new Scanner(inFile);
               for(int i = 0; i < 5; i++)
                       String string = scanned.nextLine().replaceAll("[^0-9]",""); //change line to
array of integers
                       int[] array = new int[string.length()];
                       for(int currentChar = 0; currentChar < string.length(); currentChar++) //fill</pre>
in array of integers from input
                       {
                              array[currentChar] = Integer.parseInt(string.substring(currentChar,
currentChar + 1));
                       }
                       DeletionsEasyV2 tester = new DeletionsEasyV2(array); //make Deletions
object
                       while(!tester.isClear()) //do while the array isn't clear
                       {
                              tester.doTurn();
                       }
                       System.out.println(tester.howManySteps());
               scanned.close();
       }
}
```

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```
Deletions Hard
/* Saket Bakshi. AP Computer Science A. Deletions Hard. Due March 10, 2019.
This class solves the Deletions Hard problem.
public class DeletionsHard
       private boolean isCleared; //variable to judge if problem is solved
       private int[] input; //holds the problem sequence
       private int inputLength; //length of sequence
       private int steps; //steps to solve sequence
       /**
               This takes an integer array and solves it according to the rules of the deletions
hard directions.
               @param initialSequence the initial array
       */
       public DeletionsHard(int[] initialSequence)
       {
               isCleared = false;
               input = initialSequence;
               inputLength = initialSequence.length;
               steps = 0;
       }
       /**
               This takes an integer array and solves it according to the rules of the deletions
hard directions.
       public DeletionsHard()
       {
               isCleared = false;
               input = new int[100];
               inputLength = 0;
               steps = 0;
       }
       /**
               This solves the sequence
       */
       public void doTurn()
       {
               int zeroPlaceholder = 0; //sees if there are zeros, finds location of the rightmost 0.
               for(int i = 0; i < input.length; i++)
```

```
{
                       if(input[i] == 0)
                       {
                               zeroPlaceholder = i;
                       }
               }
               if(zeroPlaceholder != 0 || (input[0] == 0 && input.length > 1)) //if there is a 0 and it
isn't the first digit
               {
                       int[] holder = new int[input.length - zeroPlaceholder - 1];
                       for(int j = 0; j < holder.length; j++) //cut the input from the beginning to the
rightmost 0
                       {
                               holder[j] = input[input.length - holder.length + j];
                       }
                       input = holder;
                       inputLength = input.length;
                       steps++;
               else if(zeroPlaceholder == 0 && input.length == 1 && input[0] == 0) //if there is a
0 in the first part of a 1 digit array
               {
                       int[] holder = new int[0];
                       input = holder;
                       steps++; //clear the array and add a step
               }
               checkIfClear();
               if(input.length !=0) //if the array isn't clear
               {
                       int common = 0;
                       int numberOfCommon = 0;
                       for(int i = 0; i <= 9; i++) //goes through each digit from 0-9 to find how
often each appears
                       {
                               int numberOfCurrent = 0; //the amount of digits of the current digit
being searched for (i)
                               for(int a = 0; a < input.length; a++)
                               {
                                       if(input[a] == i) //finds number of occurences of current digit
                                               numberOfCurrent++;
```

```
}
                            if(numberOfCurrent > numberOfCommon) //if has most
occurences, it is saved as most common, with number of occurences saved
                            {
                                   numberOfCommon = numberOfCurrent;
                                   common = i;
                            }
                            else if(numberOfCurrent >= numberOfCommon && i > common
&& numberOfCurrent != 0) //if has an equal number of appearances to most appeared but is
larger, this number is saved
                            {
                                   numberOfCommon = numberOfCurrent;
                                   common = i;
                            }
                     }
                     int commonPlaceholder = 0;
                     for(int i = 0; i < input.length; i++) //finds rightmost occurence of most
common number
                     {
                            if(input[i] == common)
                                   commonPlaceholder = i;
                     if(common % 2 == 0)
                                   input[commonPlaceholder] = input[commonPlaceholder] -
2;
                     else
                            input[commonPlaceholder] = input[commonPlaceholder] - 1;
                     steps++;
              }
      }
       /**
              Checks if the solution has been solved.
       public void checklfClear()
              if(input.length == 0)
                     isCleared = true;
      }
              Returns if the solution has been solved.
              @return if the solution is solved
```

```
*/
       public boolean isClear() {return isCleared;}
       /**
              Returns the input length.
               @return the length of the input
       */
       public int inpLength() {return inputLength;}
       /**
              Returns if the number of steps taken to solve the problem.
               @return the number of steps
       */
       public int howManySteps() {return steps;}
/* Saket Bakshi. AP Computer Science A. Deletions Hard. Due March 10, 2019.
This class tests the Deletions Hard problem.
*/
import java.util.Scanner;
import java.io.File;
import java.io.FileNotFoundException;
public class Main
       public static void main(String[] args) throws FileNotFoundException
       {
              File inFile = new File("input.txt"); //input file and scanner
               Scanner scanned = new Scanner(inFile);
               Scanner amountOfLinesTester = new Scanner(inFile);
              int numberOfLines = 0;
              while(amountOfLinesTester.hasNextLine())
              {
                      numberOfLines++;
                      amountOfLinesTester.nextLine();
              }
              for(int i = 0; i < numberOfLines; i++)
                      String string = scanned.nextLine().replaceAll("[^0-9]",""); //change line to
array of integers
                      int[] array = new int[string.length()];
```

```
for(int currentChar = 0; currentChar < string.length(); currentChar++) //fill</pre>
in array of integers from input
                              {
                                        array[currentChar] = Integer.parseInt(string.substring(currentChar,
currentChar + 1));
                              }
                              DeletionsHard tester = new DeletionsHard(array); //make Deletions object
                              while(!tester.isClear()) //do while the array isn't clear
                              {
                                         tester.doTurn();
                              }
                              System.out.println(tester.howManySteps());
                    }
                    scanned.close();
          }
}
                                                       Deletions Hard
   AutoGradr
                                                       Look at Canvas for full details
                                                                                                         Test Case 1 base case Test Case 2 Hidden Case
 DASHBOARD > APCSA-2018-P6 > DELETIONS HARD
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                                                                                                                      Java 8 🗸
                                                       @ Help
 Logout
                                                                                        Drag and drop
                                                                                    ! You passed 1 of 2 test cases

→ Test Case 2 Hidden Case

✓ Test Case 1 base case
```

```
Mowing Lab
/* Saket Bakshi. AP Computer Science A. Mowing. Due March 10, 2019.
This class solves the Mowing problem.
*/
import java.util.ArrayList;
import java.awt.Rectangle;
import java.awt.Point;
public class LawnMower
       private ArrayList<Point> horizontalBorders; //makes the lawn for the array
       private ArrayList<Point> verticalBorders;
       private String[][] lawn;
       private Rectangle mower; //makes object for the mower
       private static int counter;
       /**
              Creates a LawnMower object. This class has a mower, a lawn, and methods to
create the lawn, move the mower, return info about the whole object, cut the lawn, and detect
the surroundings of the mower.
              @param xPosition the x-coordinate position of the middle of the mower
              @param yPosition the y-coordinate position of the middle of the mower
              @param lawn the two-dimensional String array to show if the lawn is cut, where
the trees are, and where the mower is
              @param length the vertical dimension of the lawn
              @param width the horizontal dimension of the lawn
       */
       public LawnMower(int xPosition, int yPosition, String[][] lawn, int length, int width)
              horizontalBorders = new ArrayList<>();
              verticalBorders = new ArrayList<>();
              this.lawn = lawn;
              mower = new Rectangle(xPosition, yPosition, 3, 3);
              makeTopBottomBorders(length, width);
              makeRightLeftBorders(length, width);
              counter = 0;
       }
       /**
              Returns the top and bottom borders of the lawn
              @return the arraylist for the top and bottom borders of the lawn
       */
       public ArrayList<Point> getTopBottomBorders() {return horizontalBorders;}
```

```
/**
        Returns the left and right borders of the lawn
        @return the arraylist for the left and right borders of the lawn
*/
public ArrayList<Point> getRightLeftBorders() {return verticalBorders;}
/**
        Creates the top and bottom borders of the lawn
*/
private void makeTopBottomBorders(int length, int width)
        for(int i = 0; i < length; i++)
        {
                for(int j = 0; j < width; j++)
                {
                       if(i == 0)
                       {
                               Point p = new Point(j, i+1);
                               horizontalBorders.add(p);
                       }
                       if(i == length - 1)
                               Point p = new Point(j, i-1);
                               horizontalBorders.add(p);
                       }
               }
        }
}
/**
        Creates the right and left borders of the lawn
*/
private void makeRightLeftBorders(int length, int width)
{
        for(int i = 0; i < length; i++)
        {
                for(int j = 0; j < width; j++)
                       if(j == 0)
                       {
                               Point p = new Point(j+1, i);
                               verticalBorders.add(p);
```

```
}
                      if(j == width - 1)
                              Point p = new Point(j-1, i);
                             verticalBorders.add(p);
                      }
               }
       }
}
/**
       Sets the location of the mower using integers as x and y coordinates
public void setLocation(int x, int y) {mower.setLocation(x, y);}
/**
       Sets the location of the mower using Points for x and y coordinates
public void setLocation(Point p) {mower.setLocation(p);}
/**
       Moves the mower one space down
*/
public void moveDown() {mower.translate(0, 1);}
/**
       Moves the mower one space up
*/
public void moveUp() {mower.translate(0, -1);}
/**
       Moves the mower one space to the right
*/
public void moveRight() {mower.translate(1, 0);}
/**
       Moves the mower one space to the left
public void moveLeft() {mower.translate(-1,0);}
/**
       Returns the Rectangle object's data of the mower
       @return the information of the Rectangle object of the mower
*/
```

```
public Rectangle getMower() {return mower;}
/**
       Returns the location of the mower
       @return the location of the mower
*/
public Point getLocation() {return mower.getLocation();}
/**
       Returns the two-dimensional String array of the lawn
       @return a 2D array of the lawn
*/
public String[][] getLawn() {return lawn;}
/**
       Changes the area around the mower to cut grass
*/
public void cut()
{
       lawn[(int)mower.getY()][(int)mower.getX()] = "C";
       lawn[(int)mower.getY()+1][(int)mower.getX()] = "C";
       lawn[(int)mower.getY()-1][(int)mower.getX()] = "C";
       lawn[(int)mower.getY()][(int)mower.getX()-1] = "C";
       lawn[(int)mower.getY()+1][(int)mower.getX()-1] = "C";
       lawn[(int)mower.getY()-1][(int)mower.getX()-1] = "C";
       lawn[(int)mower.getY()][(int)mower.getX()+1] = "C";
       lawn[(int)mower.getY()-1][(int)mower.getX()+1] = "C";
       lawn[(int)mower.getY()+1][(int)mower.getX()+1] = "C";
}
/**
       Returns true if the mower is at the top or bottom border
       @return if the mower is at the border
*/
public boolean atTopBottomBorder()
{
       for(int i = 0; i < horizontalBorders.size(); i++)</pre>
       {
               if(mower.getLocation().equals(horizontalBorders.get(i)))
               {
                      return true;
               }
       }
```

```
return false;
       }
       /**
               Returns true if the mower is at the left or right border
               @return if the mower is at the border
       */
       public boolean atRightLeftBorder()
       {
               for(int i = 0; i < verticalBorders.size(); i++)</pre>
               {
                       if(mower.getLocation().equals(verticalBorders.get(i)))
                       {
                               return true;
                       }
               }
               return false;
       }
               Returns true if the mower is at the bottom border
               @return if the mower is at the bottom border
       */
       public boolean atBottomBorder() {return (int)mower.getLocation().getY() == lawn.length -
2;}
       /**
               Returns true if the mower is at the top border
               @return if the mower is at the top border
       */
       public boolean atTopBorder() {return (int)mower.getLocation().getY() == 1;}
       /**
               Returns true if the mower is at the right border
               @return if the mower is at the right border
       public boolean atRightBorder() {return (int)mower.getLocation().getX() == lawn[0].length
- 2;}
       /**
               Returns true if the mower is at the left border
               @return if the mower is at the left border
       */
```

```
public boolean atLeftBorder() {return (int)mower.getLocation().getX() == 1;}
/**
       Returns true if a tree is above the mower
       @return if there is a tree above
public boolean treeAbove()
       if(atTopBorder())
       {
               return false;
       if(lawn[(int)mower.getY()-2][(int)mower.getX()].equals("T")) \\
       {
               return true;
       if(lawn[(int)mower.getY()-2][(int)mower.getX()+1].equals("T"))
       {
               return true;
       if(lawn[(int)mower.getY()-2][(int)mower.getX()-1].equals("T"))
               return true;
       return false;
}
       Returns true if a tree is below the mower
        @return if there is a tree below
public boolean treeBelow()
       if(atBottomBorder())
               return false;
       if(lawn[(int)mower.getY()+2][(int)mower.getX()].equals("T"))
               return true;
       if(lawn[(int)mower.getY()+2][(int)mower.getX()+1].equals("T"))
```

```
return true;
       if(lawn[(int)mower.getY()+2][(int)mower.getX()-1].equals("T")) \\
               return true;
       return false;
}
/**
       Moves the mower up as long as nothing is in the way or there is no border
*/
public void toTheTop()
       while(true)
       {
               if(atTopBorder())
                       break;
               }
               if(treeAbove())
                       break;
               }
               else
               {
                       moveUp();
               }
       }
}
/**
       Checks if right side is open to mow
       @return if the right is open to mow
*/
public boolean rightlsOpen()
{
       if(atRightBorder()) //checks for borders
               return false;
       if(lawn[(int)mower.getY()][(int)mower.getX()+2].equals("T")) //checks for trees
```

```
return false;
       if(lawn[(int)mower.getY()+1][(int)mower.getX()+2].equals("T"))
               return false;
       if(lawn[(int)mower.getY()-1][(int)mower.getX()+2].equals("T"))
               return false;
       return true;
}
       Checks if left side is open to mow
        @return if the left is open to mow
*/
public boolean leftIsOpen()
       if(atLeftBorder()) //checks for border
               return false;
       if(lawn[(int)mower.getY()][(int)mower.getX()-2].equals("T")) //checks for trees
               return false;
       if(lawn[(int)mower.getY()+1][(int)mower.getX()-2].equals("T"))
               return false;
       if(lawn[(int)mower.getY()-1][(int)mower.getX()-2].equals("T"))
               return false;
       return true;
}
       Moves mower up until the right is open
public void checkRightToTheTop(Point temp)
```

```
if(!rightlsOpen())
       {
               while(!atTopBorder() && !(mower.getLocation().equals(temp)))
               {
                      if(rightIsOpen())
                      {
                             mower.translate(1, 0);
                             break;
                      }
                      else
                      {
                             moveUp();
                      }
               }
       }
       else
       {
               mower.translate(1, 0);
       }
}
/**
       Moves mower down until the right is open
*/
public void checkRightToTheBottom(Point temp)
{
       if(!rightlsOpen())
       {
               while(!atBottomBorder() && !(mower.getLocation().equals(temp)))
               {
                      if(rightIsOpen())
                      {
                             mower.translate(1, 0);
                             break;
                      }
                      else
                      {
                             moveDown();
                      }
               }
       }
       else
       {
```

```
mower.translate(1, 0);
       }
}
       Moves mower up until the left is open.
*/
public void checkLeftToTheTop(Point temp)
{
       if(!leftIsOpen())
       {
               while(!atTopBorder() && !(mower.getLocation().equals(temp))) //nottop
               {
                      if(leftIsOpen())
                      {
                              mower.translate(-1, 0);
                              break;
                      }
                      else
                      {
                              moveUp();
                      }
               }
       }
       else
       {
               mower.translate(-1, 0);
       }
}
/**
       Moves mower down until the left is open.
*/
public void checkLeftToTheBottom(Point temp)
{
       if(!leftIsOpen())
       {
               while(!atBottomBorder() && !(mower.getLocation().equals(temp))) //nottop
               {
                      if(leftIsOpen())
                      {
                              mower.translate(-1, 0);
                              break;
```

```
}
                                else
                                {
                                        moveDown();
                                }
                        }
                }
                else
                {
                        mower.translate(-1, 0);
                }
       }
                Fills in a section of the lawn according to a top-right corner coordinate and a
rectangular area to fill
        public void fillSection(int i, int j, String[][] section)
                for(int a = 0; a < section.length; a++)
                {
                        for(int b = 0; b < section[0].length; <math>b++)
                        {
                                section[a][b] = lawn[a+i][b+j];
                        }
                }
       }
       /**
                Checks to see if a section has either a tree or hasn't been mowed
                @return if the section can be mowed
        public boolean onlyC(String[][] section)
        {
                for(int i = 0; i < section.length; i++)
                        for(int j = 0; j < section[0].length; <math>j++)
                        {
                                if(section[i][j].equals(".") || section[i][j].equals("T"))
                                {
                                        return false;
                                }
                        }
```

```
return true;
       }
       /**
               Scans to find what sections can be mowed
               @return the point of an area that can be mowed
       */
       public Point scan()
       {
               int countingTo = counter;
               Point p = new Point(-1, -1);
               String[][] section = new String[3][3];
               for(int i = 0; i < lawn.length-2; i++)
                      for(int j = 0; j < lawn[0].length-2; j++)
                      {
                              fillSection(i, j, section);
                              if(onlyC(section))
                              {
                                      if(countingTo == 0)
                                             Point x = new Point(j+1, i+1);
                                             counter++;
                                             return x;
                                      }
                                      else
                                      {
                                             countingTo--;
                                      }
                              }
                      }
               return p;
       }
/* Saket Bakshi. AP Computer Science A. Mowing. Due March 10, 2019.
This class tests the Mowing problem.
*/
import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;
import java.util.StringTokenizer;
```

```
import java.util.ArrayList;
import java.awt.Point;
public class Main
       public static void main(String[] args) throws FileNotFoundException
       {
              File text = new File("input.txt"); //inputs the file
              Scanner in = new Scanner(text); //creates scanner object
              int loops = Integer.parseInt(in.nextLine()); //takes number of test cases
              for(int a = 0; a < loops; a++)
              {
                      StringTokenizer mowerCoordinatesAndLawnSize = new
StringTokenizer(in.nextLine(), " ");
                      int length =
Integer.parseInt(mowerCoordinatesAndLawnSize.nextToken());
                      int width =
Integer.parseInt(mowerCoordinatesAndLawnSize.nextToken());
                      int rowPos =
Integer.parseInt(mowerCoordinatesAndLawnSize.nextToken());
                      int colPos =
Integer.parseInt(mowerCoordinatesAndLawnSize.nextToken());
                      String[][] lawn = new String[length][width]; //constructs 2D lawn and fills it
in
                      for(int i = 0; i < length; i++)
                      {
                             StringTokenizer lawnCreator = new StringTokenizer(in.nextLine(),
" ");
                             for(int j = 0; j < width; j++)
                                    lawn[i][j] = lawnCreator.nextToken();
                             }
                      LawnMower tester = new LawnMower(colPos, rowPos, lawn, length,
width);
                      //mows everywhere possible without jumping the mower
                      mowToTheRight(tester);
                      tester.setLocation(colPos, rowPos);
                      mowToTheLeft(tester);
                      tester.setLocation(colPos, rowPos);
```

```
otherMowToTheRight(tester);
              tester.setLocation(colPos, rowPos);
              otherMowToTheLeft(tester);
              for(int x = 0; x < 1000; x++)
              {
                     Point scanned = tester.scan();
                     Point stop = new Point(-1, -1);
                     if(!scanned.equals(stop))
                     {
                            tester.setLocation(scanned);
                             mowToTheRight(tester);
                            tester.setLocation(scanned);
                             mowToTheLeft(tester);
                            tester.setLocation(scanned);
                            otherMowToTheRight(tester);
                            tester.setLocation(scanned);
                            otherMowToTheLeft(tester);
                     }
              }
              printArray(tester.getLawn());
              if (a < loops-1)
              System.out.println();
       }
}
public static void mowToTheRight(LawnMower mower)
{
       mower.toTheTop();
       Point temp = mower.getLocation();
       do
       {
              mower.cut();
              if(!mower.atBottomBorder() && !mower.treeBelow())
              {
                     mower.moveDown();
              }
       while(!mower.treeBelow() && !mower.atTopBottomBorder());
       mower.cut();
```

```
mower.checkRightToTheTop(temp);
      if(temp.equals(mower.getLocation()) && !mower.rightlsOpen())
             mowToTheLeft(mower);
      else if(mower.rightlsOpen() && temp.equals(mower.getLocation()))
             mower.moveRight();
             mowToTheRight(mower);
      }
      else
      {
             mowToTheRight(mower);
      }
}
public static void otherMowToTheRight(LawnMower mower)
       mower.toTheTop();
      do
      {
             mower.cut();
             if(!mower.atBottomBorder() && !mower.treeBelow())
             {
                    mower.moveDown();
             }
      while(!mower.treeBelow() && !mower.atTopBottomBorder());
      mower.cut();
       Point temp2 = mower.getLocation();
       mower.toTheTop();
       mower.checkRightToTheBottom(temp2);
      if(temp2.equals(mower.getLocation()) && !mower.rightlsOpen())
      {
             otherMowToTheLeft(mower);
      else if(mower.rightlsOpen() && temp2.equals(mower.getLocation()))
      {
             mower.moveRight();
             otherMowToTheRight(mower);
```

```
}
       else
       {
              otherMowToTheRight(mower);
       }
}
public static void mowToTheLeft(LawnMower mower)
{
       mower.toTheTop();
       Point temp = mower.getLocation();
       do
       {
              mower.cut();
              if(!mower.atBottomBorder() && !mower.treeBelow())
                     mower.moveDown();
              }
              else
              {
                     break;
              }
       while(!mower.treeBelow() && !mower.atTopBottomBorder());
       mower.cut();
       mower.checkLeftToTheTop(temp);
       if(temp.equals(mower.getLocation()) && !mower.leftIsOpen())
       {
       else if(temp.equals(mower.getLocation()) && mower.leftlsOpen())
       {
             mower.moveLeft();
              mowToTheLeft(mower);
       }
       else
              mowToTheLeft(mower);
       }
}
```

```
public static void otherMowToTheLeft(LawnMower mower)
{
       mower.toTheTop();
       do
       {
              mower.cut();
              if(!mower.atBottomBorder() && !mower.treeBelow())
                     mower.moveDown();
              }
              else
              {
                     break;
              }
       while(!mower.treeBelow() && !mower.atTopBottomBorder());
       mower.cut();
       Point temp2 = mower.getLocation();
       mower.toTheTop();
       mower.checkLeftToTheBottom(temp2);
       if(temp2.equals(mower.getLocation()) && !mower.leftlsOpen())
       {
       else if(temp2.equals(mower.getLocation()) && mower.leftlsOpen())
       {
              mower.moveLeft();
              otherMowToTheLeft(mower);
       }
       else
       {
              otherMowToTheLeft(mower);
       }
}
public static void printArray(String[][] array)
{
       for(int i = 0; i < array.length; i++)
              for(int j = 0; j < array[0].length; j++)
              {
```

```
System.out.print(array[i][j] + " ");
}
System.out.println();
}

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```