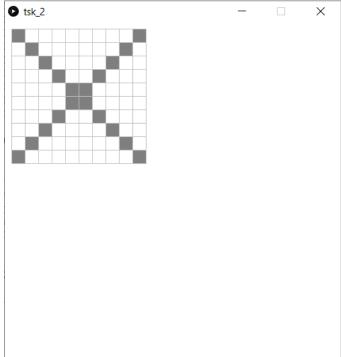
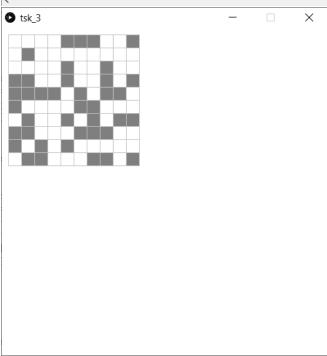
Lab 3



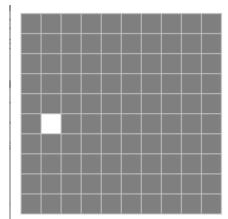
```
void setup() {
    size(500, 500);
    background(255);
    stroke(195);
    int [][] myData ={
    {1,0,0,0,0,0,0,0,0,1},
    {0,1,0,0,0,0,0,0,1,0},
    {0,0,1,0,0,0,0,1,0,0},
    {0,0,0,1,0,0,1,0,0,0},
    {0,0,0,0,1,1,0,0,0,0},
    {0,0,0,0,1,1,0,0,0,0},
    {0,0,0,1,0,0,1,0,0,0},
    {0,0,1,0,0,0,0,1,0,0},
    {0,1,0,0,0,0,0,0,1,0},
    {1,0,0,0,0,0,0,0,0,1}
    };
    myDraw(myData);
18 }
20 void myDraw(int[][] array){
    for (int i = 0; i < 10; i++) {
      for (int j = 0; j < 10; j++) {
        if (array[j][i] == 1) {
          fill(127);
24
         }
         else {
          fill(255);
28
        rect(10+20*i, 10+20*j, 20, 20);
32 }
```



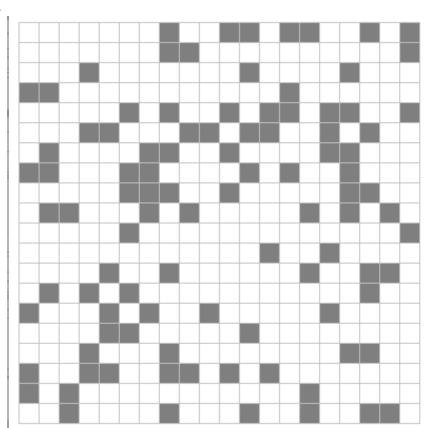
```
void setup() {
      size(500, 500);
background(255);
      stroke(195);
     int[][] myData = new int[10][10];
myClearData(myData);
myRandomSet(myData, 40);
     myDraw(myData);
     void myDraw(int[][] array){
        for (int i = 0; i < array.length; i++) {
   for (int j = 0; j < array.length; j++) {
      if (array[j][i] == 1) {</pre>
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32
                fill(127);
             else {
               fill(255);
              rect(10+20*i, 10+20*j, 20, 20);
     int[][] myClearData(int[][] array) {
       for (int i = 0; i < array.length; i++) {
   for (int j = 0; j < array.length; j++){</pre>
            array[i][j] = 0;
          }
       return array;
33
     int[][] myRandomSet(int[][] array, int count) {
   for (int i = 0; i < count && i < array.length*array.length; i++) {</pre>
36
37
38
39
40
          int x = int(random(array.length));
           int y = int(random(array.length));
           if (array[x][y] == 0) {
            array[x][y] = 1;
          else {
          }
        return array;
```



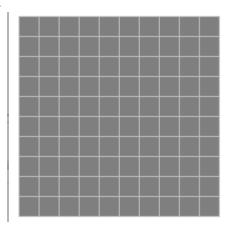
3.1.



3.2.



3.3.



```
void setup() {
  size(1050, 1050);
  background(255);
       stroke(195);
       int[][] myData = new int[50][50];
       myClearData(myData);
       myRandomSet(myData, 1000);
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      myDraw(myData);
      void myDraw(int[][] array){
        for (int i = 0; i < array.length; i++) {
   for (int j = 0; j < array.length; j++) {</pre>
                if (array[j][i] == 1) {
                  fill(127);
              fill(255);
}
               else {
                rect(10+20*i, 10+20*j, 20, 20);
21
22
23
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32
     int[][] myClearData(int[][] array) {
   for (int i = 0; i < array.length; i++) {
     for (int j = 0; j < array.length; j++){
        array[i][j] = 0;
     }
}</pre>
        }
         return array;
      int[][] myRandomSet(int[][] array, int count) {
  for (int i = 0; i < count && i < array.length*array.length; i++) {</pre>
           int x = int(random(array.length));
int y = int(random(array.length));
if (array[x][y] == 0) {
    array[x][y] = 1;
            else {
              i--;
            }
         return array;
```