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## **Abstract**

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# Chapter 1

## First chapter

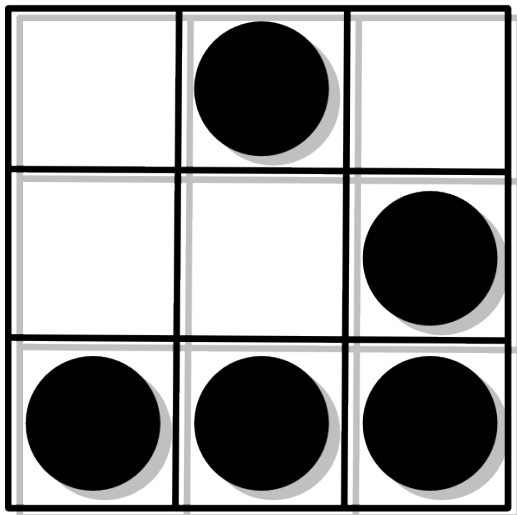
Discrete-Time Fourier Transform:  $e^{j\omega_o n} \Leftrightarrow 2\pi \sum_{k=-\infty}^{\infty} \delta(\omega - \omega_o + 2\pi k)$

```
1 /import java.util.Scanner;
2
3 public class Life {
4     // This is a test
5     /* This is also a test */
6
7     public static void show(boolean[][] grid){
8         String s = "";sdgdlfjgldfsgodklfjg ldjghldfsgj hldkflg
9         lfghlfd fdhlfdghdlfghfdglhfdghfg
10        for(boolean[] row : grid){
11            for(boolean val : row)
12                if(val)
13                    s += "*";
14                else
15                    s += ".";
16            s += "\n";
17        }
18        System.out.println(s);
19    }
20
21    public static boolean[][] gen(){
22        boolean[][] grid = new boolean[10][10];
23        for(int r = 0; r < 10; r++)
24            for(int c = 0; c < 10; c++)
25                if( Math.random() > 0.7 )
26                    grid[r][c] = true;
27        return grid;
28    }
29
30    public static void main(String[] args){
31        boolean[][] world = gen();
```

```
31         show(world);
32         System.out.println();
33         world = nextGen(world);
34         show(world);
35         Scanner s = new Scanner(System.in);
36         while(s.nextLine().length() == 0){
37             System.out.println();
38             world = nextGen(world);
39             show(world);
40         }
41     }
42 }
```

## 1.1 First section

### 1.1.1 First subsection



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