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Abstract

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Chapter 1

First chapter

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

```java
/import java.util.Scanner;

public class Life {
    // This is a test
    /* This is also a test */

    public static void show(boolean[][] grid){
        String s = "";sdgdlfjgldfgodklfjg ldjghldfsgj hldkflg
            lfghlfd fdhlfdghdlfghfdglhfdghfg
        for(boolean[] row : grid){
            for(boolean val : row)
                if(val)
                    s += "*";
                else
                    s += ".";
            s += "\n";
        }
        System.out.println(s);
    }

    public static boolean[][] gen(){
        boolean[][] grid = new boolean[10][10];
        for(int r = 0; r < 10; r++)
            for(int c = 0; c < 10; c++)
                if( Math.random() > 0.7 )
                    grid[r][c] = true;
        return grid;
    }

    public static void main(String[] args){
        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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