

## Thư viện List - Bài tập Histogram

- Write a program to compute the histogram of the grades of a class. Given  $n$  integers  $p_1, p_2, \dots, p_n$  which are the points of  $n$  students of a class. Compute  $h[i]$  which is the number of students having point  $i$  ( $i = 0, 1, \dots, 10$ )
- **Input**
  - Line 1: contains a positive integer  $n$  ( $1 \leq n \leq 10000$ )
  - Line 2: contains  $n$  non-negative integers:  $p_1, p_2, \dots, p_n$  ( $0 \leq p_i \leq 10$ )
- **Output**
  - Write  $h[0], h[1], \dots, h[10]$  (after each number, write a SPACE character)

Input	Output
10 4 3 1 3 2 1 4 4 2 3	0 2 2 3 3 0 0 0 0 0 0

```
import java.io.PrintWriter;
import java.util.Scanner;

public class Main {
    public static void main(String[] args){
        try {
            Scanner in = new Scanner(System.in);
            int[] h = new int[11];
            for (int i = 0; i <= 10; i++) h[i] = 0;
            int n = in.nextInt();
            for (int i = 1; i <= n; i++) {
                int p = in.nextInt();
                h[p]++;
            }
            in.close();
            for (int p = 0; p <= 10; p++)
                System.out.print(h[p] + " ");
        } catch (Exception e){
            e.printStackTrace();
        }
    }
}
```