ITP20003 Java Programming

Lab 1. Hello, Java World

First Team

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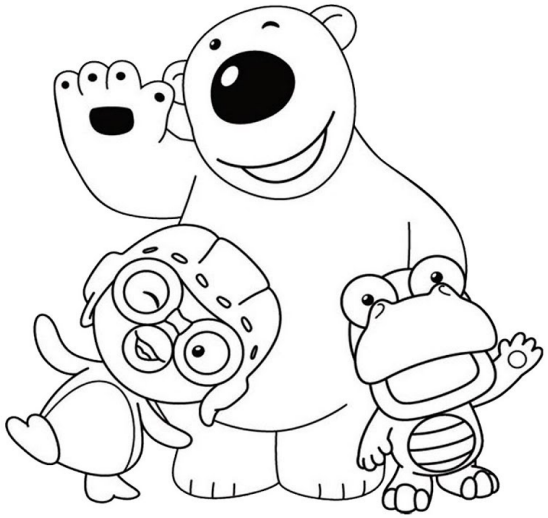
Team4	황재운	양예진
Team5	백주열	이제민
Team6	이혁재	이지행
Team7	박수현	윤석규
Team8	이종원	김아론
Team9	권회준	황보효정
Team10	심충일	김재윤
Team11	한다희	이겸재
Team12	김시온	박혜빈
Team13	김지민	황은진

Programme

- Hello World, the Bare Minimum
- Development Environment Configuration
- Hello World Variants
  - with command line arguments
  - with file I/O
  - with graphic user interface

- Two Missions: M1 and M2 (50 min)
  - work as a team, but both of the members should show the programming results to TA

How to Complete Missions?



M1. Histogram (1/2)

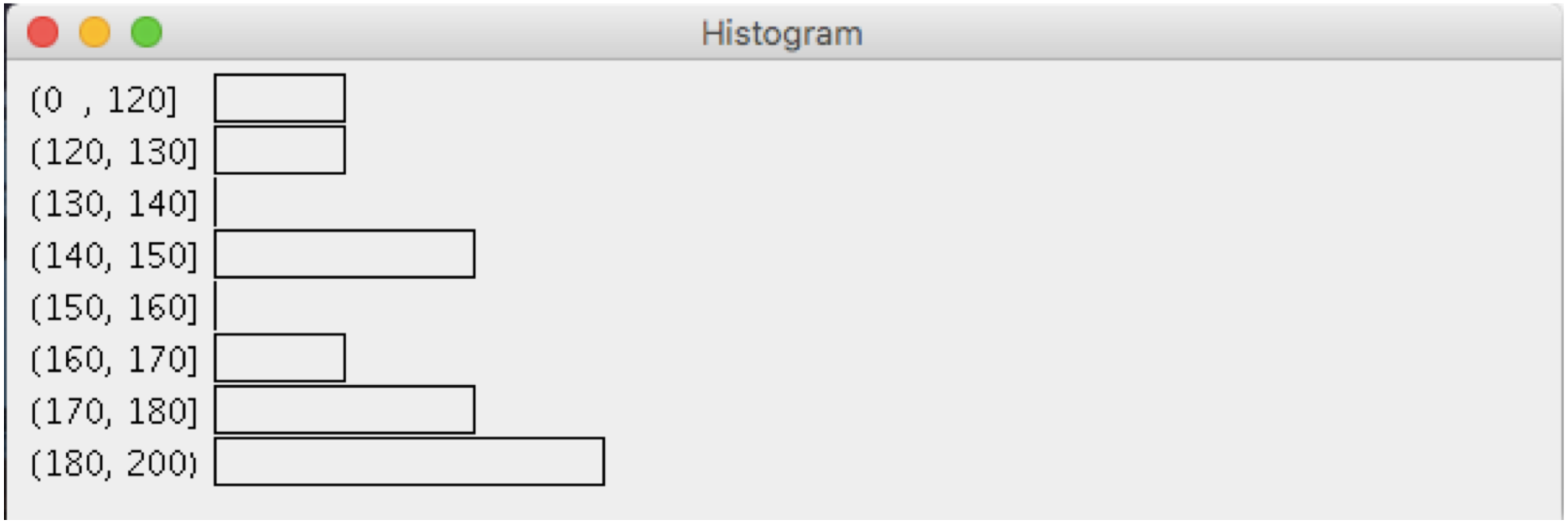
- Write a program that receives ten numbers of persons' heights from the standard input (i.e., keyboard) and draw of a graphic histogram of the received height distribution
  - A given number is an integer greater than 0 and less than 200 (assume that always correct inputs will be given)
  - The histogram should have 8 class intervals as follows:
    - (0, 120]
    - (120, 130]
    - (130, 140]
    - (140, 150]
    - (150, 160]
    - (160, 170]
    - (170, 180]
    - (180, 200)

M1. Histogram (2/2)

- Input

```
90 187 164 125 145 177 141 176 180 191
```

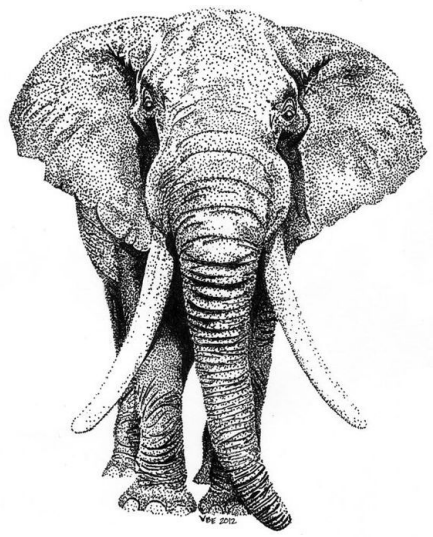
- Output



M2. Pointillism (1/2)

- A data file has a set of locations of points
  - A location is a pair of x-coordinate and y-coordinate
  - E.g., (0, 0) is the location of the left-bottom corner

- Write a program that reads such a data file and plots all given points on a 600x300 window



M2. Pointillism (2/2)

- Input: `points.dat`
  - each line has a pair of x-coordinate and y-coordinate
  - every x-coordinate is in between 0 and 575056
  - every y-coordinate is in between 0 and 244448

- Output: ?