ITP20003 Java Programming

Lab 1. Hello, Java World

First Team

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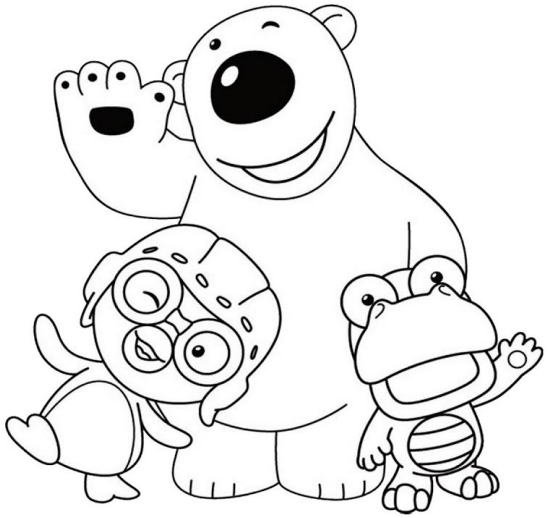
Team5	백주열	이제민
Team6	이혁재	이지행
Team7	박수현	윤석규
Team8	이종원	김아론
Team9	권회준	황보효정
Team10	심충일	김재윤
Team11	한다희	이겸재
Team12	김시온	박혜빈
Team13	김지민	황은진

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 no greater 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

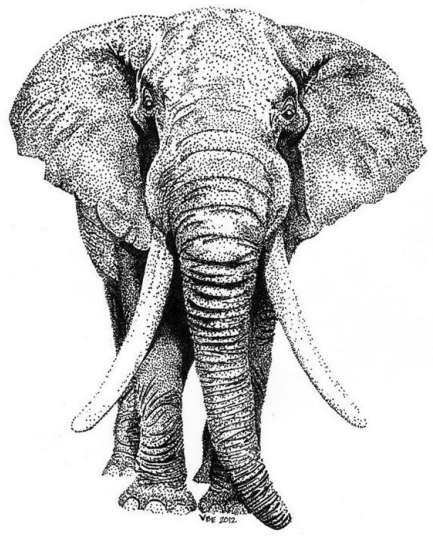
```
90 187 164 125 145 177 141 176 180 191
```

- 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: ?