

# Course Activity

Introduction

# Grouping

- 2 students per group except Final
- Filled in the group list in [https://docs.google.com/spreadsheets/d/1Mk0caTpd8WkgSw6hMiaHOLYG\\_98LlgyGqox3r5intk/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1Mk0caTpd8WkgSw6hMiaHOLYG_98LlgyGqox3r5intk/edit?usp=sharing)
- Remember your group number, this sheet will be read-only after 9/25 23:59

# Course Activity

- In-class exercise
  - Deadline : Tuesday ( maybe extended )
  - Inter/ inner group discussion ok !
  - Inter group code exchange FORBIDDEN
    - DO NOT SHOW YOUR CODE TO OTHERS EXCEPT YOUR TEAMATE

# Server

- mvnl.csie.ntu.edu.tw
- e.g. nc mvnl.csie.ntu.edu.tw 7770
- Send “Q” for problem, send “A” for submitting, send “P” for problem description
- If correct, the server returns flag

# Activity #0 : Test ( NO CREDIT )

- A+B question
- nc mvnl.csie.ntu.edu.tw 7770
- Sample code in <https://drive.google.com/open?id=0B4Qc-NfoSFXscDZVV3BsQUJSZnM>

# Activity #0 : Test ( NO CREDIT )

[MATLAB] Test

= Problem =

In this problem, you need to return the result of  $a+b$  using MATLAB

= Input Format =

a b

a,b : integer in [1,100]

= Output Format =

c

c : result of  $a+b$

= Sample Input =

1 2

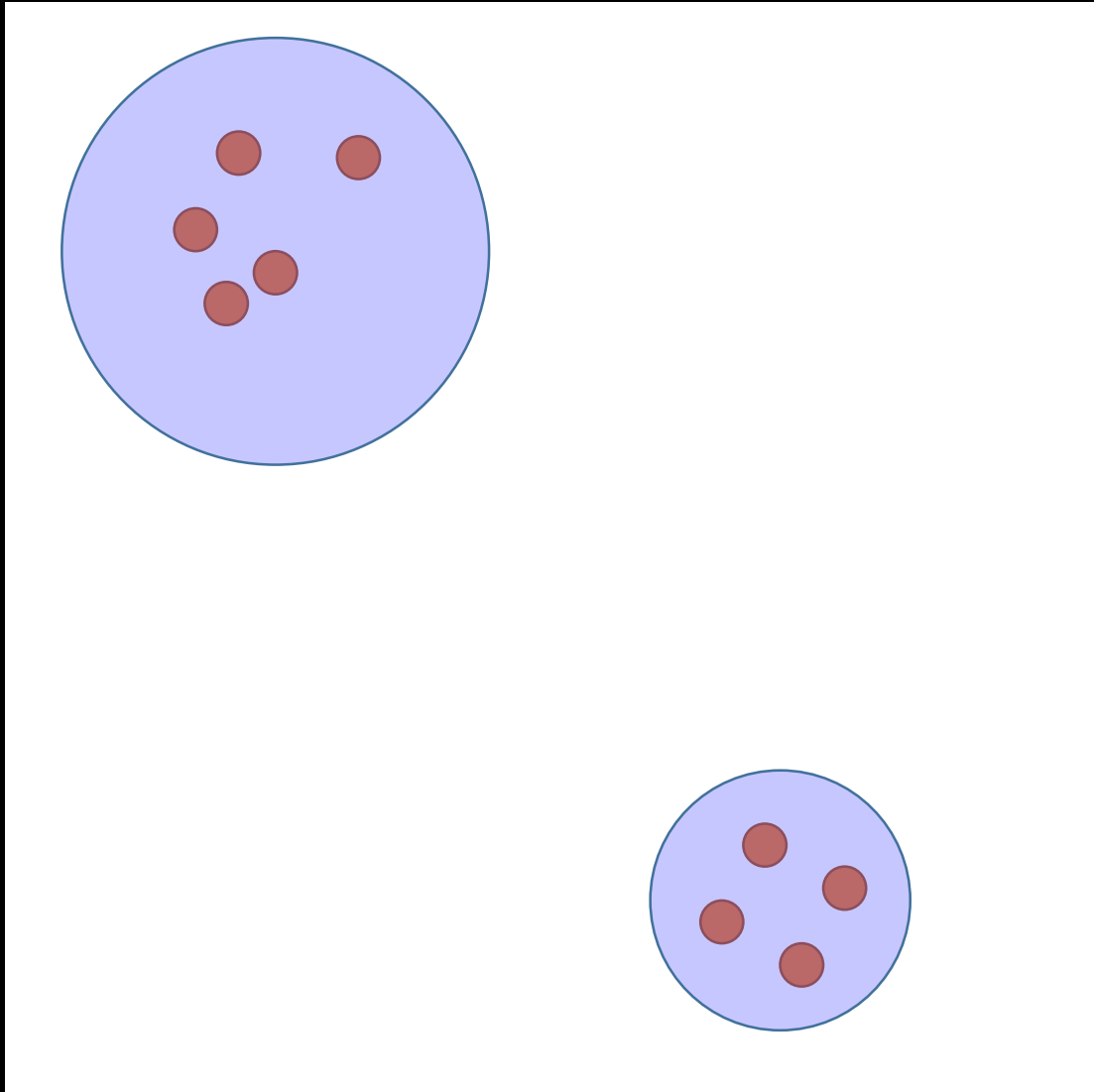
= Sample Output =

3

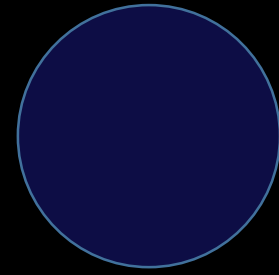
# Activity #1 : Multiplexing

- nc mvnl.csie.ntu.edu.tw 7771
- Utility SNR code in [https://drive.google.com/open?id=0B\\_Z-TUMjZ2A8dk5QRUIUcFBoQ2c](https://drive.google.com/open?id=0B_Z-TUMjZ2A8dk5QRUIUcFBoQ2c)

40m



● Receiver



Transmitter  
& Power



# Activity #1 : Multiplexing

- In this problem, you need to calculate the valid Tx positions and
- transmission powers respectively given the Rx locations.
- location ([0,40],[0,40])
- Tx power (10mW, 1000mW)
- Noise floor  $10^{(-7.5)}$  mW
- PathLossExponent = 2
- SINR must over 100

# Activity #1 : Multiplexing-p3

- [nc.mvnl.csie.ntu.edu.tw](http://nc.mvnl.csie.ntu.edu.tw) 7772

# Activity #1 : Multiplexing-p3

- In this problem, you need to calculate the valid Tx positions and
- transmission powers respectively given the Rx locations.
- location ([0,40],[0,40])
- Tx power (10mW, 1000mW)
- Noise floor  $10^{(-7.5)}$  mW
- PathLossExponent = 3
- SINR must over 100

# Submit

- [courses.dlc.ntu.edu.tw](http://courses.dlc.ntu.edu.tw)
  - Exercise > Multiplexing
  - .zip containing (code.m)/ report.pdf/ flag.txt