MEG304_MID :: 基於Python的資訊素養入門

> Date: 2021-Nov-24 R00.
>

MEG304 Stuent.ID: _ Name: _ PC seat Number :_

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TOC :: MEG304:::

LEVEL 1 : TWO-DICES GAME

運行（最多）10次遊戲以獲得兩個骰子的總和。如果第n次試驗的總和小於6，則遊戲結束（退出）

> Note: Define some functions to achive the LEVEL-1 goal.

GAME GOAL: 兩個骰子的總和

In [1]:
```
## GOAL - template ( change the outfile name if needed)
# A sample short code to display this marked image file (at local subfolder )
## MEG304::  You need to use the existed Q0_DICES.py as the starting point.
##           The Expected DELIVERABLE (Answer sheet) is a jupyter notebook file.

from IPython import display
#use this ##  display.Image("./img/FIG1-Addimage.png")
display.Image("./img/MEGLevel1.png")
```

Out[1]:

```python
# Q0_DICES.py
# StuID:_____   (revised: MEG304 2021Fall)
## TODO:  change this .py to a runnable jupyter notebook.
## GOAL:  Running 10-time(max.) games to get the sum of two-dices.
##        if the sum of the nth-trial is less than 6, then game over (Exit).
## 運行（最多）10次遊戲以獲得兩個骰子的總和。如果第n次試驗的總和小於6，則遊戲結束（退出）。

import random

x = random.randint(1,6)
y = random.randint(1,6)
roll = x + y

def diceTest(n):
    ## TODO: add "assert" to avoid inproper input parameter
    ## TODO: redesign it, a new function to "return" the sum of two dices.

    if n < 6 or n > 10:
        print("Error!! {0}:input 'n' should be 6~10 ".format(n))
        return
    x = random.randint(1,n)
    y = random.randint(1,n)
    ## TODO: sum of  two dices.  change or redesign it with "return" its sum.
    roll = x + y
    ##TODO: print -- use different ways to print it out.
    print(f"\tDice: {n} faces for the result:{roll}={x}+{y}")
    ##  Return

##  Add some necessary statements to make it as main() function
##
# diceTest(7)
# diceTest(10)
# diceTest(21)
```

LEVEL -1： Two-Dices Game

In [2]:
```python
### Your LEVEL-1 Code is here ...
```

In [ ]:
```python

```

In [ ]:
```python

```

In [ ]:
```python

```

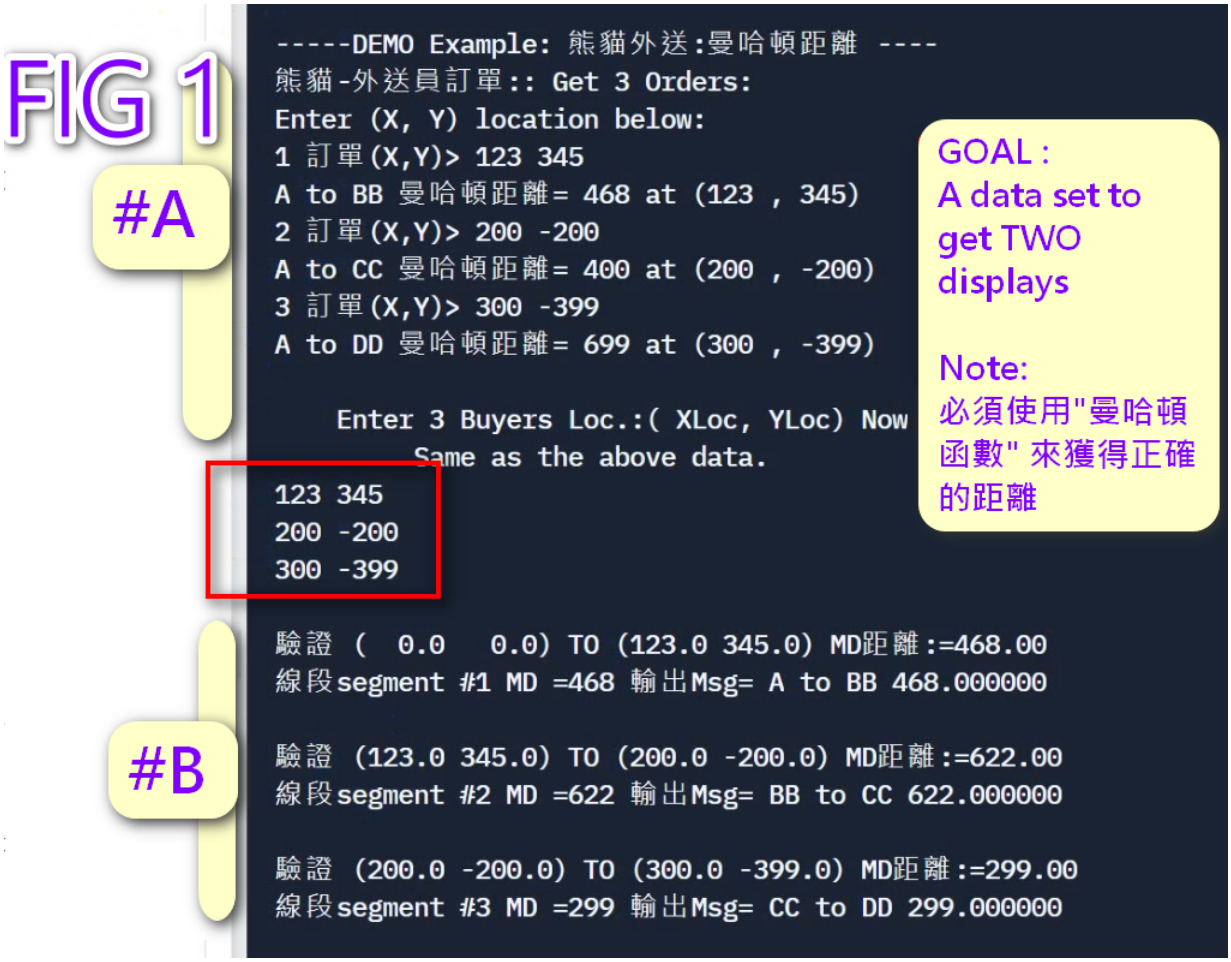
End of Level-1 Block

LEVEL 2：曼哈頓距離

In [3]:
```python
##  Note: Two differnt data sets are needed to prove your skill level
## ( including the Predefined-set1 as FIG1)
```

In [4]:
```python
##  Level2- FIG1 is here ...
# display.Image("./img/FIG1-Addimage.png")
display.Image("./img/Level2FIG1.png")
```

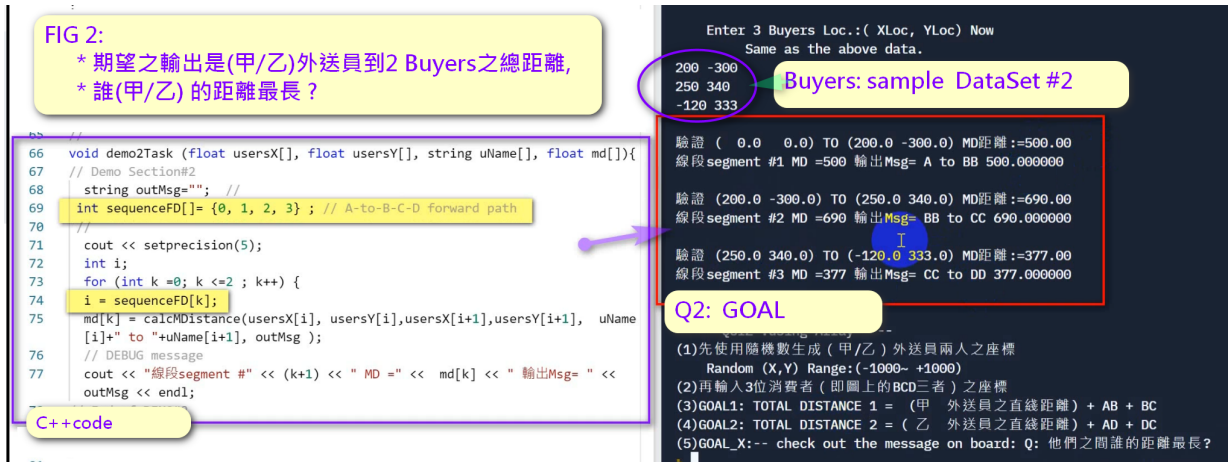
Out[4]:



In [5]:
```
## 基於Python的資訊素養入門 --- your code /  brief  text-block (MD-Style) is here...
```

In [6]:
```
#  GOAL:  Level 2 Figure 2
# display.Image("./img/FIG1-Addimage.png")
display.Image("./img/Level2FIG2.png")
```

Out[6]:



In [7]:
```
## --- your code /  brief  text-block (MD-Style) is here...
```

In [8]:
```
##  add your own code here ...
```

Back to :: Level 1 -QUIZ or - Level 2 -GOAL

In [9]:
```
## --- your code /  brief  text-block (MD-Style) is here...
```