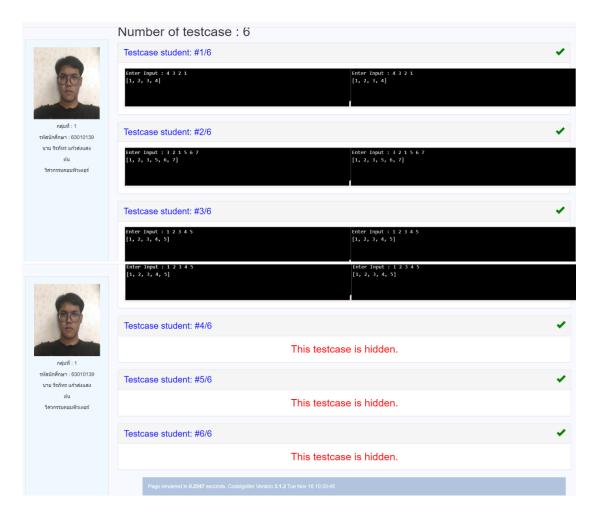
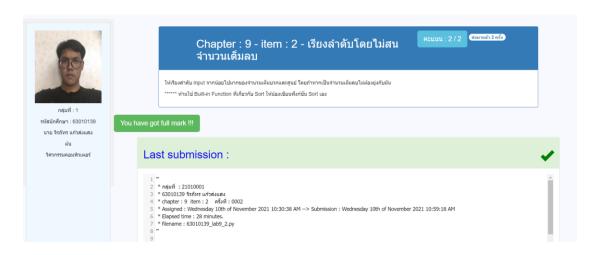
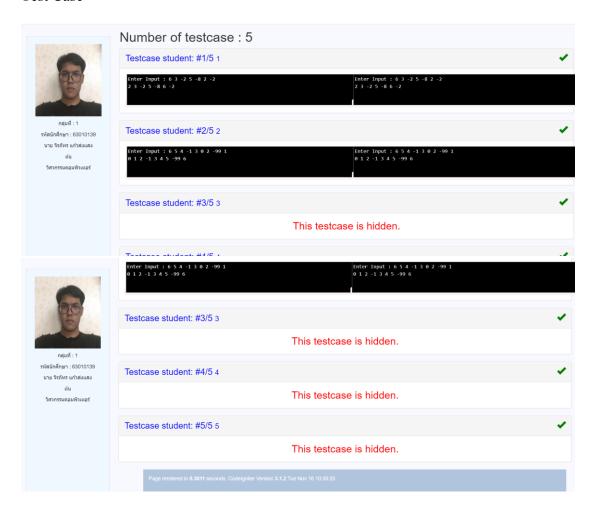
## **Lab 9 Sorting**

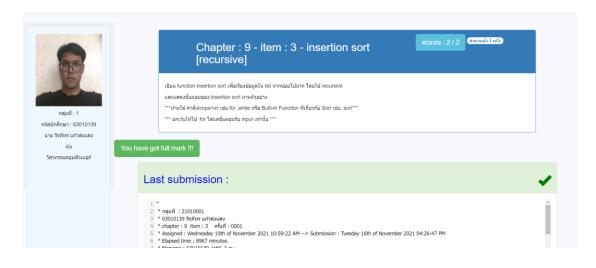
## โจทย์ข้อ 1



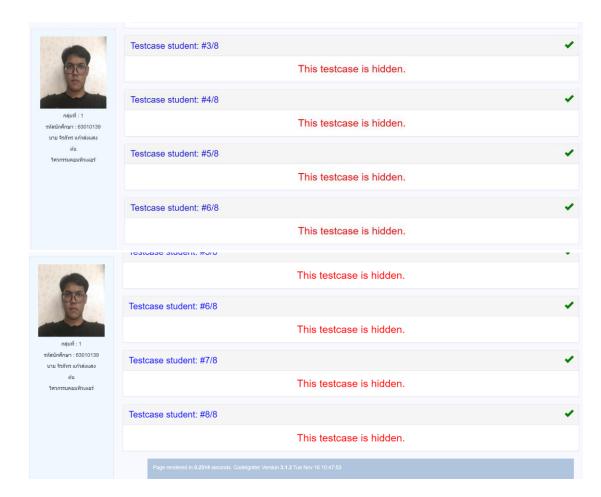


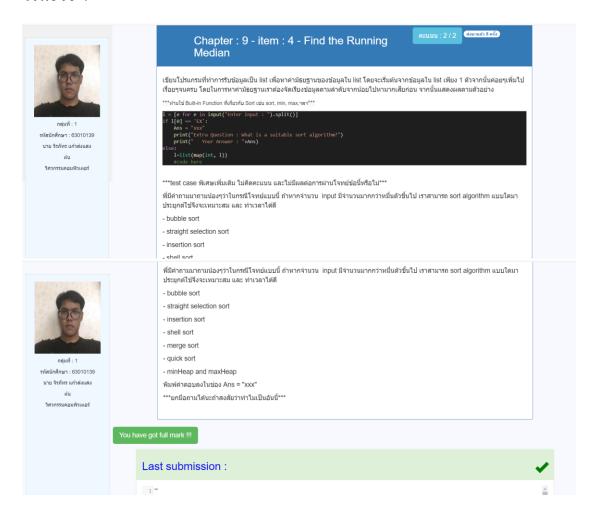




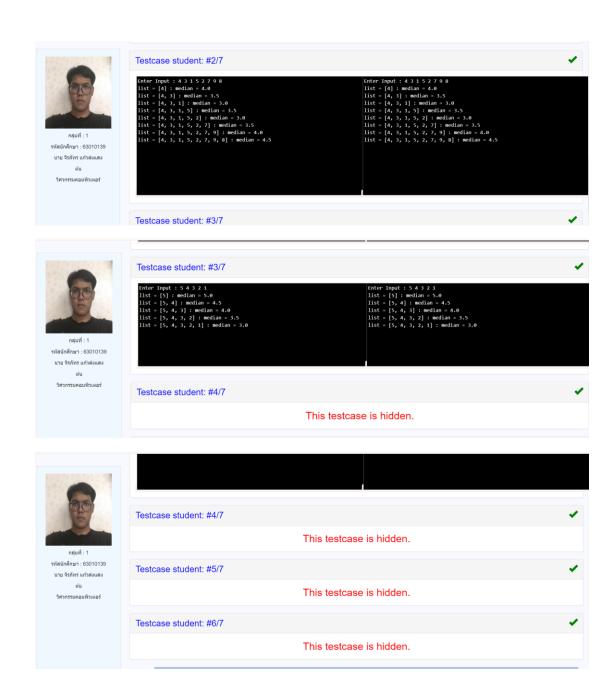


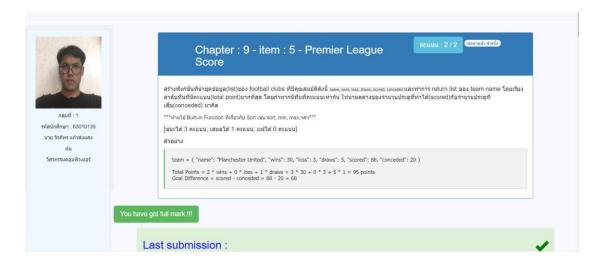


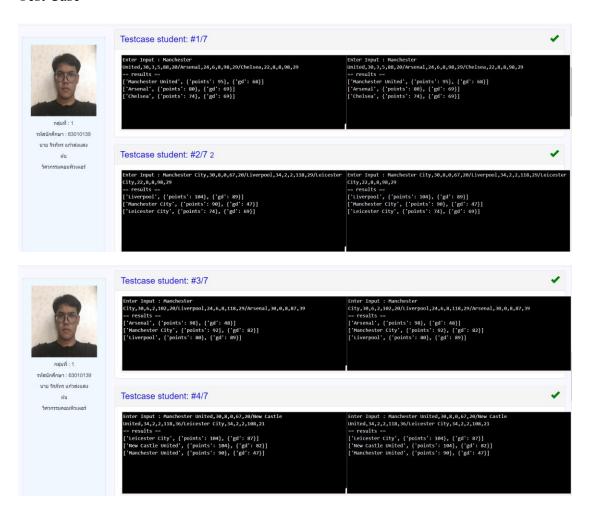














กลุ่มที่ : 1 รหัสนักศึกษา : 63010139 นาย จิรภัทร แก้วส่งแสง ค่น วิศวกรรมคอมพิวเตอร์

#### Testcase student: #5/7

Enter Input: Manchester
City,30,6,2,102,20%/iverpool,24,6,8,118,29/Arsenal,28,2,8,87,39
== results =
['Manchester City', ('points': 92), ('gd': 82)]
['Marsenal', ('points': 92), ('gd': 48)]
['Liverpool', ('points': 80), ('gd': 89)]

Enter Input: Manchester
City,39,6,2,192,20/Liverpool,24,6,8,118,29/Arsenal,28,2,8,87,39
== results ==
['Manchester City', ('points': 92), ['gd': 82}]
['Arsenal', ('points': 92), {'gd': 48}]
['Liverpool', {'points': 80}, {'gd': 89}]

#### Testcase student: #6/7 6

Enter Input: Chelsea, 35, 3, 6, 102, 20/Manchester
City, 30, 6, 2, 102, 20/Liverpool, 24, 6, 8, 118, 20/Arsenal, 28, 2, 8, 87, 39
== results ==
['Chelsea', ['points': 105], ['pd': 82]]
['Manchester City', ['points': 92], ['pd': 82]]
['Arsenal', ['points': 92], ['gd': 83]]
['Liverpool', ['points': 80], ['gd': 89]]

Enter Input : Chelsea, 35, 3, 8, 102, 20/Manchester
City, 30, 6, 2, 102, 20/Liverpool, 24, 6, 8, 118, 20/Arsenal, 28, 2, 8, 87, 39
=- results =['Chelsea', '[points': 105), ('[pd': 82]]
['Manchester City', ('points': 92), ('[gd': 82]]
['Arsenal', '[points': 92], '[gd': 82]]
['Liverpool', ('points': 80), ('[gd': 89]]



รหัสนักศึกษา : 63010139 นาย จิรภัทร แก้วส่งแสง

วิศวกรรมคอมพิวเตอร์

#### Testcase student: #7/7

Enter Input:
Wolverhampton, 4,2,1,8,8/Liverpool,5,1,1,17,15/Chelsea,3,1,3,16,9/Leicester
City,5,2,0,17,9/Arsenal,4,3,0,9,7/Manchester City,3,1,2,9,8/Manchester
United,2,3,19,13/Southhampton,4,2,1,14,12/Tottenham
Holtspur,4,1,2,18,9/Everton,4,2,1,15,11/Aston Villa,4,2,8,15,9
= results =
['Liverpool', ('points': 16), ('gd': 2)]
['Valcester City, ('points': 13), ('gd': 8)]
['Tottenham Hotspur', {'points': 13}, ('gd': 9)]
['Everton', ('points': 13), ('gd': 2)]
['Wolverhampton', ('points': 13), ('gd': 0)]
['Chelsea', ('points': 12), ('gd': 7)]
['Aston Villa', ('points': 12), ('gd': 6)]
['Arsenal', ('points': 12), ('gd': 6)]
['Arsenal', ('points': 12), ('gd': 5)]
['Manchester City', {'points': 11}, {'gd': 3}]
['Manchester United', ('points': 7), ('gd': -4)]

Enter Input:
Wolverhampton, 4,2,1,8,8/Liverpool,5,1,1,17,15/Chelsea,3,1,3,16,9/Leicester City,5,2,0,17,9/Arsenal,4,3,0,9,7/Manchester City,3,1,2,9,8/Manchester United,2,3,1,9,11/Southhampton,4,2,1,14,12/Tottenham NotSpur,4,1,2,18,9/Everton,4,2,1,15,11/Aston Villa,4,2,0,15,9 == results == ['tiverpool', ['points': 16), ('gd': 2)] ['teicester City', 'points': 16), ('gd': 4)] ['tottenham NotSpur', ('points': 13), ('gd': 4)] ['southhampton', '(points': 13), ('gd': 2)] ['southhampton', '(points': 13), ('gd': 9)] ['chelsea', '(points': 12), ('gd': 7)] ['chelsea', '(points': 12), ('gd': 6)] ['Asson Villa', ('points': 12), ('gd': 6)] ['Arsenal', '(points': 12), ('gd': 6)] ['Arsenal', '(points': 13), ('gd': 6)] ['Arsenal', '(points': 13), ('gd': 4)] ['Manchester City', ('points': 11), ('gd': 4)]