

นายณภัทร จิรารัตนกุลชัย 63010279

ข้อ 1

The screenshot shows a browser window for the "Programming Lab Management System" at datastruc.ce.kmit.ac.th/21s1ds/index.php/student/lab_exercise/4/1. The page displays a green success message: "You have got full mark !!!". Below it, a section titled "Last submission :" shows the following Python code:

```
1 ...
2 * แกมที่ : 21010001
3 * 63010279 ณภัทร จิรารัตนกุลชัย
4 * chapter : 4 item : 1 ตั้งที่ : 0002
5 * Assigned : Thursday 2nd of September 2021 05:01:23 AM --> Submission : Thursday 2nd of September 2021 05:50:37 AM
6 * Elapsed time : 49 minutes.
7 * filename : 63010279_Lab4_1.py
8 ...
9 class Queue:
10     def __init__(self):
11         self.value = []
12     def queue(self, item):
13         self.value.append(item)
14         print(len(self.value))
15     def dequeue(self):
```

Number of testcase : 4

The screenshot shows a browser window for the "Programming Lab Management System" at datastruc.ce.kmit.ac.th/21s1ds/index.php/student/lab_exercise/4/1. It displays two testcases for student #1/4.

Testcase student: #1/4 1

| Enter Input : E 10,E 20,E 30,E 40,D,D | Enter Input : E 10,E 20,E 30,E 40,D,D |
|---|---|
| 1 2 3 4 10 0 20 0 30 40 | 1 2 3 4 10 0 20 0 30 40 |

Testcase student: #2/4 2

| Enter Input : E 10,E 20,E 30,E 40,D,E 50,E 60,D,D,D,D,D | Enter Input : E 10,E 20,E 30,E 40,D,E 50,E 60,D,D,D,D,D |
|---|---|
| 1 2 3 4 10 0 4 | 1 2 3 4 10 0 4 |

KCE_DS.Student x +

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testcase student: #2/4 2

Enter Input : E 10,E 20,E 30,E 40,D,E 50,E 60,D,D,D,D,D,D

1
2
3
4
10 0
4
5
20 0
30 0
40 0
50 0
60 0
-1
Empty

Enter Input : E 10,E 20,E 30,E 40,D,E 50,E 60,D,D,D,D,D,D

1
2
3
4
10 0
4
5
20 0
30 0
40 0
50 0
60 0
-1
Empty

Testcase student: #3/4 3

This testcase is hidden.

Type here to search

10:19 PM 9/14/2021

KCE_DS.Student x +

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testcase student: #3/4 3

20 0
30 0
40 0
50 0
60 0
-1
Empty

testcase student: #4/4 4

20 0
30 0
40 0
50 0
60 0
-1
Empty

This testcase is hidden.

This testcase is hidden.

Page rendered in 0.1036 seconds. CodeIgniter Version 3.1.2 Tue Sep 14 10:13:07

Type here to search

10:19 PM 9/14/2021

ข้อ 2

You have got full mark !!!

Last submission :

```
1 ***
2 * ภารกิจที่ : 21010001
3 * 63010279 นักศึกษาชั้นปีที่ 4
4 * chapter : 4 item : 2 ตั้งแต่ที่ : 0002
5 * Assigned : Thursday 2nd of September 2021 05:50:44 AM --> Submission : Saturday 11th of September 2021 02:30:20 AM
6 * Elapsed time : 12759 minutes.
7 * filename : 63010279_Lab4_2.py
8 ***
9 class Queue:
10     def __init__(self):
11         self.value = []
12     def queue(self, item):
13         self.value.append(item)
14     def dequeue(self):
15         if len(self.value) > 0:
```

Number of testcase : 3

Testcase student: #1/3 1

Type here to search

10:19 PM 9/14/2021

KCE_DS.Student Not secure | datastruc.ce.kmitl.ac.th/21s1ds/index.php/student/lab_exercise/4/2

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You have got full mark !!!

Last submission :

```
1 ***
2 * ภารกิจที่ : 21010001
3 * 63010279 นักศึกษาชั้นปีที่ 4
4 * chapter : 4 item : 2 ตั้งแต่ที่ : 0002
5 * Assigned : Thursday 2nd of September 2021 05:50:44 AM --> Submission : Saturday 11th of September 2021 02:30:20 AM
6 * Elapsed time : 12759 minutes.
7 * filename : 63010279_Lab4_2.py
8 ***
9 class Queue:
10     def __init__(self):
11         self.value = []
12     def queue(self, item):
13         self.value.append(item)
14     def dequeue(self):
15         if len(self.value) > 0:
```

Number of testcase : 3

Testcase student: #1/3 1

Enter people and time : HELLO_WORLD 13

```
1 ['E', 'L', 'L', 'O', '_', 'W', 'O', 'R', 'L', 'D'] ['W'] []
2 ['L', 'L', 'O', '_', 'W', 'O', 'R', 'L', 'D'] ['H', 'E'] []
3 ['L', 'O', '_', 'W', 'O', 'R', 'L', 'D'] ['H', 'E', 'L'] []
4 ['O', '_', 'W', 'O', 'R', 'L', 'D'] ['E', 'L', 'L'] []
5 ['_', 'W', 'O', 'R', 'L', 'D'] ['E', 'L', 'L', 'O'] []
6 ['W', 'O', 'R', 'L', 'D'] ['E', 'L', 'L', 'O', '_'] []
7 ['O', 'R', 'L', 'D'] ['L', 'L', 'O', '_', 'W'] []
8 ['W', 'L', 'D'] ['L', 'L', 'O', '_', 'W'] ['O']
9 ['L', 'D'] ['L', 'L', 'O', '_', 'W'] ['O', 'R']
10 ['O'] ['L', 'O', '_', 'W', 'L'] ['R']
11 [] ['L', 'O', '_', 'W', 'L'] ['R', 'D']
12 [] ['L', 'O', '_', 'W', 'L'] ['D']
13 [] ['O', '_', 'W', 'L'] ['D']
```

Enter people and time : HELLO_WORLD 13

```
1 ['E', 'L', 'L', 'O', '_', 'W', 'O', 'R', 'L', 'D'] ['H'] []
2 ['L', 'L', 'O', '_', 'W', 'O', 'R', 'L', 'D'] ['H', 'E'] []
3 ['L', 'O', '_', 'W', 'O', 'R', 'L', 'D'] ['H', 'E', 'L'] []
4 ['O', '_', 'W', 'O', 'R', 'L', 'D'] ['E', 'L', 'L'] []
5 ['_', 'W', 'O', 'R', 'L', 'D'] ['E', 'L', 'L', 'O'] []
6 ['W', 'O', 'R', 'L', 'D'] ['E', 'L', 'L', 'O', '_'] []
7 ['O', 'R', 'L', 'D'] ['L', 'L', 'O', '_', 'W'] []
8 ['R', 'L', 'D'] ['L', 'L', 'O', '_', 'W'] ['O']
9 ['L', 'D'] ['L', 'L', 'O', '_', 'W'] ['O', 'R']
10 ['D'] ['L', 'O', '_', 'W', 'L'] ['R']
11 [] ['L', 'O', '_', 'W', 'L'] ['R', 'D']
12 [] ['L', 'O', '_', 'W', 'L'] ['D']
13 [] ['O', '_', 'W', 'L'] ['D']
```


ข้อ 3

KCE_DS_Student x +

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You have got full mark !!!

Last submission :

```
1 ...
2 * ຄູນຫີ່ : 21010001
3 * 63010279 ນາຍ ຊົວລະນະພັນ
4 * chapter : 4 item : 3 ຄູນຫີ່ : 0001
5 * Assigned : Wednesday 8th of September 2021 09:03:41 AM --> Submission : Wednesday 8th of September 2021 10:55:38 AM
6 * Elapsed time : 111 minutes.
7 * filename : 63010279_Lab4_3.py
8 ...
9 class Queue:
10     def __init__(self):
11         self.value = []
12     def enqueue(self, item):
13         self.value.append(item)
14     def dequeue(self):
15         if len(self.value) > 0:
```

Number of testcase : 6

Testcase student: #1/6 1

Type here to search

10:20 PM 9/14/2021

KCE_DS_Student x +

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Number of testcase : 6

Testcase student: #1/6 1

Enter Input : 1 2 7 2 4 6 8/E 5,D,D,E 1,E 3,D
NO Duplicate

Enter Input : 1 2 7 2 4 6 8/E 5,D,D,E 1,E 3,D
NO Duplicate

Testcase student: #2/6 3

This testcase is hidden.

Testcase student: #3/6 4

This testcase is hidden.

Testcase student: #4/6 5

10:20 PM 9/14/2021

KCE_DS.Student x +

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Testcase student: #2/6 3 ✓
This testcase is hidden.

Testcase student: #3/6 4 ✓
This testcase is hidden.

Testcase student: #4/6 5 ✓
This testcase is hidden.

Testcase student: #5/6 6 ✓
This testcase is hidden.

Type here to search 10:20 PM 9/14/2021

ข้อ 4

You have got full mark !!!

Last submission :

```
1 ...
2 * ภารที : 21010001
3 * 63010279 นลัษณ จิราภรณ์กุลชัย
4 * chapter : 4 item : 4 ตั้งที่ : 0007
5 * Assigned : Wednesday 8th of September 2021 10:55:41 AM --> Submission : Tuesday 14th of September 2021 11:29:30 PM
6 * Elapsed time : 9393 minutes.
7 * filename : 63010279_Lab4_5.py
8 ...
9 class Queue:
10     def __init__(self):
11         self.value = []
12     def enqueue(self, item):
13         if len(self.value) <= 1:
14             self.value.append(item)
15         else:
```

Number of testcase : 7

Testcase student: #1/7 1

Type here to search

KCE_DS.Student Not secure | datastruc.ce.kmitl.ac.th/21s1ds/index.php/student/exercise_submission

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Number of testcase : 7

Testcase student: #1/7 1

```
Enter Input : 1 101,1 102,2 201,2 202/D,E 101,E 201,D,D
Empty
101
201
```

```
Enter Input : 1 101,1 102,2 201,2 202/D,E 101,E 201,D,D
Empty
101
102
201
```

Testcase student: #2/7 2

```
Enter Input : 1 101,1 102,2 201,2 202/D,E 101,E 201,E 102,D,D,D,D
Empty
101
102
201
Empty
```

```
Enter Input : 1 101,1 102,2 201,2 202/D,E 101,E 201,E 102,D,D,D,D
Empty
101
102
201
```

KCE_DS.Student x +

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Testcase student: #3/7 3 ✓
This testcase is hidden.

Testcase student: #4/7 4 ✓
This testcase is hidden.

Testcase student: #5/7 5 ✓
This testcase is hidden.

Testcase student: #6/7 6 ✓
This testcase is hidden.

Type here to search

11:35 PM ENG 9/14/2021

KCE_DS.Student x +

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This testcase is hidden.

Testcase student: #5/7 5 ✓
This testcase is hidden.

Testcase student: #6/7 6 ✓
This testcase is hidden.

Testcase student: #7/7 7 ✓
This testcase is hidden.

Page rendered in 0.6252 seconds. CodeIgniter Version 3.1.2 Tue Sep 14 11:29:30

Type here to search

11:36 PM ENG 9/14/2021

ข้อ 5

KCE_DS_Student x +

Not secure | datastruc.ce.kmit.ac.th/21s1ds/index.php/student/lab_exercise/4/5

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Last submission :

กศุณี : 1
รหัสนักศึกษา : 63010279
นาม ณัชกร จิรารัตน์กุลขันธ์
ฤทธิ์
วิศวกรรมคอมพิวเตอร์

```
1 ***
2 * คุณที่ : 21010001
3 * 63010279 ณัชกร จิรารัตน์กุลขันธ์
4 * chapter : 4 item : 5 ต่อที่ : 0001
5 * Assigned : Wednesday 8th of September 2021 04:05:51 PM --> Submission : Tuesday 14th of September 2021 10:17:55 PM
6 * Elapsed time : 9012 minutes.
7 * filename : 63010279_Lab4_5.py
8 ***
9 class Queue:
10     def __init__(self, list=None):
11         if list == None:
12             self.items = []
13         else:
14             self.items = list
15     def enqueue(self, i):
```

Number of testcase : 12

Testcase student: #1/12 1

Enter Input (Normal, Mirror) : AAABBBBDEEE HHHH Enter Input (Normal, Mirror) : AAABBBBDEEE HHHH

Type here to search 11:36 PM 9/14/2021

KCE_DS_Student x +

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Number of testcase : 12

Testcase student: #1/12 1

Enter Input (Normal, Mirror) : AAABBBBDEEE HHHH
NORMAL :
8
EEDCAHAA
1 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
0
ytpme
(RORRIM) ! ! ! (s)evisolpxE 1

Enter Input (Normal, Mirror) : AAABBBBDEEE HHHH
NORMAL :
8
EEDCAHAA
1 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
0
ytpme
(RORRIM) ! ! ! (s)evisolpxE 1

Testcase student: #2/12 2

Enter Input (Normal, Mirror) : AAABBBBDEEE FGHHHHIOPPP
NORMAL :
12

Enter Input (Normal, Mirror) : AAABBBBDEEE FGHHHHIOPPP
NORMAL :
12

Type here to search 11:36 PM 9/14/2021

KCE_DS.Student x +

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Testcase student: #2/12 2 ✓

Enter Input (Normal, Mirror) : AAABBCDEE FGHHHIOPPP

NORMAL :
12
EEDCBHBBAPAA
0 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
4
FGTO
(RORRIM) ! ! ! (s)evisolpxE 2

Enter Input (Normal, Mirror) : AAABBBDEEE FGHHHIOPPP

NORMAL :
12
EEDCBHBBAPAA
0 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
4
FGTO
(RORRIM) ! ! ! (s)evisolpxE 2

Testcase student: #3/12 3 ✓

Enter Input (Normal, Mirror) : AAABBCDDDEE BBBTENETAAA

NORMAL :
5
EECBA
1 Explosive(s) ! ! ! (NORMAL)
Failed Interrupted 2 Bomb(s)

Enter Input (Normal, Mirror) : AAABBBCCDDEE BBBBTENETAAA

NORMAL :
5
EECBA
1 Explosive(s) ! ! ! (NORMAL)
Failed Interrupted 2 Bomb(s)

Type here to search 11:36 PM 9/14/2021

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Testcase student: #3/12 3 ✓

Enter Input (Normal, Mirror) : AAABBCDDDEE BBBTENETAAA

NORMAL :
5
EECBA
1 Explosive(s) ! ! ! (NORMAL)
Failed Interrupted 2 Bomb(s)
-----MIRROR-----
: RORRIM
5
TENET
(RORRIM) ! ! ! (s)evisolpxE 2

Enter Input (Normal, Mirror) : AAABBBCCDDEE BBBBTENETAAA

NORMAL :
5
EECBA
1 Explosive(s) ! ! ! (NORMAL)
Failed Interrupted 2 Bomb(s)
-----MIRROR-----
: RORRIM
5
TENET
(RORRIM) ! ! ! (s)evisolpxE 2

Testcase student: #4/12 4 ✓

Enter Input (Normal, Mirror) : AAABBBBDDD TENET

NORMAL :
0
Empty
3_Explosive(s) ! ! ! (NORMAL)

Enter Input (Normal, Mirror) : AAABBBBDDD TENET

NORMAL :
0
Empty
3_Explosive(s) ! ! ! (NORMAL)

Type here to search 11:36 PM 9/14/2021

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Testcase student: #4/12 4 ✓

กุณที่ : 1
รหัสนักศึกษา : 63010279
นาม ณัชกร จิราภรณ์กุลชัย^{กุณ}
วิศวกรรมคอมพิวเตอร์

Enter Input (Normal, Mirror) : AAABBBDDDD TENET
NORMAL :
0
Empty
3 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
5
TENET
(RORRIM) ! ! ! (s)evisolpxE 0

Enter Input (Normal, Mirror) : AAABBBDDDD TENET
NORMAL :
0
Empty
3 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
5
TENET
(RORRIM) ! ! ! (s)evisolpxE 0

Testcase student: #5/12 5 ✓

Enter Input (Normal, Mirror) : AAABBBCCDDDEE OOOZZZTENETXXXXYY
NORMAL :
15
EEDZDDCBXBAYAA
0 Explosive(s) ! ! ! (NORMAL)

Enter Input (Normal, Mirror) : AAABBBCCDDDEE OOOZZZTENETXXXXYY
NORMAL :
15
EEDZDDCBXBAYAA
0 Explosive(s) ! ! ! (NORMAL)

Type here to search 11:36 PM 9/14/2021

KCE_DS.Student x +

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Testcase student: #5/12 5 ✓

กุณที่ : 1
รหัสนักศึกษา : 63010279
นาม ณัชกร จิราภรณ์กุลชัย^{กุณ}
วิศวกรรมคอมพิวเตอร์

Enter Input (Normal, Mirror) : AAABBBCCDDDEE OOOZZZTENETXXXXYY
NORMAL :
15
EEDZDDCBXBAYAA
0 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
5
TENET
(RORRIM) ! ! ! (s)evisolpxE 4

Enter Input (Normal, Mirror) : AAABBBCCDDDEE OOOZZZTENETXXXXYY
NORMAL :
15
EEDZDDCBXBAYAA
0 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
5
TENET
(RORRIM) ! ! ! (s)evisolpxE 4

Testcase student: #6/12 6 ✓

This testcase is hidden.

Testcase student: #7/12 7 ✓

Type here to search 11:37 PM 9/14/2021

KCE_DS.Student x +

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Testcase student: #6/12 6 ✓
This testcase is hidden.

Testcase student: #7/12 7 ✓
This testcase is hidden.

Testcase student: #8/12 8 ✓
This testcase is hidden.

Testcase student: #9/12 9 ✓
This testcase is hidden.

Testcase student: #10/12 10 ✓

Type here to search

11:37 PM 9/14/2021

KCE_DS.Student x +

Not secure | datastruc.ce.kmit.ac.th/21stds/index.php/student/lab_exercise/4/5

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Testcase student: #9/12 9 ✓
This testcase is hidden.

Testcase student: #10/12 10 ✓

| | |
|--|--|
| Enter Input (Normal, Mirror) : DDDFFFGGG ABBBAACCC NORMAL : 12 GAGGFBBFDCCD 0 Explosive(s) ! ! ! (NORMAL) -----MIRROR----- : RORRIM 0 ytpmE (RORRIM) ! ! ! (s)evisolpxE 3 | Enter Input (Normal, Mirror) : DDDFFFGGG ABBBAACCC NORMAL : 12 GAGGFBBFDCCD 0 Explosive(s) ! ! ! (NORMAL) -----MIRROR----- : RORRIM 0 ytpmE (RORRIM) ! ! ! (s)evisolpxE 3 |
|--|--|

Testcase student: #11/12 11 ✓

KCE_DS.Student x +

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Testcase student: #11/12 11 ✓

Enter Input (Normal, Mirror) : AJJJJJJJAA CCCCCC
NORMAL :
0
Empty
2 Explosive(s) ! ! ! (NORMAL)
Failed Interrupted 2 Bomb(s)
-----MIRROR-----
: RORRIM
0
ytpmE
(RORRIM) ! ! ! (s)evisolpxE 2

Enter Input (Normal, Mirror) : Aaaaaaaaaa CCCCCC
NORMAL :
0
Empty
2 Explosive(s) ! ! ! (NORMAL)
Failed Interrupted 2 Bomb(s)
-----MIRROR-----
: RORRIM
0
ytpmE
(RORRIM) ! ! ! (s)evisolpxE 2

Testcase student: #12/12 12 ✓

Enter Input (Normal, Mirror) : PPPAAAAABBBB PPPAAAAA Enter Input (Normal, Mirror) : PPPAAAAABBBB PPPAAAAA

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KCE_DS.Student x +

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Testcase student: #12/12 12 ✓

Enter Input (Normal, Mirror) : PPPAAAAABBBB PPPAAAAA
NORMAL :
10
BAAPAAPAPP
1 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
1
A
(RORRIM) ! ! ! (s)evisolpxE 2

Enter Input (Normal, Mirror) : PPPAAAAABBBB PPPAAAAA
NORMAL :
10
BAAPAAPAPP
1 Explosive(s) ! ! ! (NORMAL)
-----MIRROR-----
: RORRIM
1
A
(RORRIM) ! ! ! (s)evisolpxE 2

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