

Question 2

(a)

`table = 21x11 table`

	Name	ID_Number	Lab_1	Lab_2	Lab_3	Lab_4	Midterm	...
1	"Maximum Mark"	"0"	10	10	10	10	20	
2	"Kacie Stephenson"	"1803933"	7	2	9	0	9	
3	"Yassin Jordan"	"1884159"	1	2	10	3	8	
4	"Lowri Mathews"	"1853847"	2	0	0	2	17	
5	"Tiya Sheridan"	"1810192"	7	1	0	6	15	
6	"Nikola Forrest"	"1891352"	1	7	0	6	5	
7	"Veer Blair"	"1811313"	4	8	5	3	12	
8	"Isabelle McGrath"	"1804841"	6	7	4	0	13	
9	"Samir Greaves"	"1881925"	9	3	7	1	6	
10	"Zander Kendall"	"1877711"	8	10	5	4	17	
11	"Shahzaib Buckley"	"1830894"	4	5	7	9	8	
12	"Morgan Bush"	"1855191"	9	6	7	10	1	
13	"Amaan Robbins"	"1821012"	1	8	4	4	8	
14	"Theodore Lawson"	"1844339"	5	7	10	7	14	
15	"Ace Branch"	"1898468"	2	1	3	7	11	
16	"Anthony Bernard"	"1883633"	4	1	10	8	19	
17	"Tobey Bell"	"1808742"	0	10	8	2	10	
18	"Jannat Cassidy"	"1863450"	1	2	4	5	10	
19	"Imran Marquez"	"1830190"	2	9	1	6	17	
20	"Amani Castro"	"1835544"	8	9	5	7	3	
21	"Blanka Holt"	"1820930"	6	5	2	0	8	

`gradesTable = 21x5 table`

	Name	Lab_1	Lab_2	Lab_3	Lab_4
1	"Maximum Mark"	10	10	10	10
2	"Kacie Stephenson"	7	2	9	0
3	"Yassin Jordan"	1	2	10	3
4	"Lowri Mathews"	2	0	0	2
5	"Tiya Sheridan"	7	1	0	6
6	"Nikola Forrest"	1	7	0	6
7	"Veer Blair"	4	8	5	3

	Name	Lab_1	Lab_2	Lab_3	Lab_4
8	"Isabelle McGrath"	6	7	4	0
9	"Samir Greaves"	9	3	7	1
10	"Zander Kendall"	8	10	5	4
11	"Shahzaib Buckley"	4	5	7	9
12	"Morgan Bush"	9	6	7	10
13	"Amaan Robbins"	1	8	4	4
14	"Theodore Lawson"	5	7	10	7
15	"Ace Branch"	2	1	3	7
16	"Anthony Bernard"	4	1	10	8
17	"Tobey Bell"	0	10	8	2
18	"Jannat Cassidy"	1	2	4	5
19	"Imran Marquez"	2	9	1	6
20	"Amani Castro"	8	9	5	7
21	"Blanka Holt"	6	5	2	0

sortedGrades = 21x5 table

	Name	Lab_1	Lab_2	Lab_3	Lab_4
1	"Maximum Mark"	10	10	10	10
2	"Morgan Bush"	9	6	7	10
3	"Samir Greaves"	9	3	7	1
4	"Zander Kendall"	8	10	5	4
5	"Amani Castro"	8	9	5	7
6	"Kacie Stephenson"	7	2	9	0
7	"Tiya Sheridan"	7	1	0	6
8	"Isabelle McGrath"	6	7	4	0
9	"Blanka Holt"	6	5	2	0
10	"Theodore Lawson"	5	7	10	7
11	"Veer Blair"	4	8	5	3
12	"Shahzaib Buckley"	4	5	7	9
13	"Anthony Bernard"	4	1	10	8
14	"Imran Marquez"	2	9	1	6
15	"Ace Branch"	2	1	3	7
16	"Lowri Mathews"	2	0	0	2
17	"Amaan Robbins"	1	8	4	4

	Name	Lab_1	Lab_2	Lab_3	Lab_4
18	"Nikola Forrest"	1	7	0	6
19	"Yassin Jordan"	1	2	10	3
20	"Jannat Cassidy"	1	2	4	5
21	"Tobey Bell"	0	10	8	2

topStudent = 1x5 table

	Name	Lab_1	Lab_2	Lab_3	Lab_4
1	"Morgan Bush"	9	6	7	10

Name =

"Morgan Bush"

totalMark = 32

(b)

table = 21x11 table

	Name	ID_Number	Lab_1	Lab_2	Lab_3	Lab_4	Midterm	...
1	"Maximum Mark"	"0"	10	10	10	10	20	
2	"Kacie Stephenson"	"1803933"	7	2	9	0	9	
3	"Yassin Jordan"	"1884159"	1	2	10	3	8	
4	"Lowri Mathews"	"1853847"	2	0	0	2	17	
5	"Tiya Sheridan"	"1810192"	7	1	0	6	15	
6	"Nikola Forrest"	"1891352"	1	7	0	6	5	
7	"Veer Blair"	"1811313"	4	8	5	3	12	
8	"Isabelle McGrath"	"1804841"	6	7	4	0	13	
9	"Samir Greaves"	"1881925"	9	3	7	1	6	
10	"Zander Kendall"	"1877711"	8	10	5	4	17	
11	"Shahzaib Buckley"	"1830894"	4	5	7	9	8	
12	"Morgan Bush"	"1855191"	9	6	7	10	1	
13	"Amaan Robbins"	"1821012"	1	8	4	4	8	
14	"Theodore Lawson"	"1844339"	5	7	10	7	14	
15	"Ace Branch"	"1898468"	2	1	3	7	11	
16	"Anthony Bernard"	"1883633"	4	1	10	8	19	
17	"Tobey Bell"	"1808742"	0	10	8	2	10	
18	"Jannat Cassidy"	"1863450"	1	2	4	5	10	
19	"Imran Marquez"	"1830190"	2	9	1	6	17	
20	"Amani Castro"	"1835544"	8	9	5	7	3	

	Name	ID_Number	Lab_1	Lab_2	Lab_3	Lab_4	Midterm
21	"Blanka Holt"	"1820930"	6	5	2	0	8

gradesTable = 21x5 table

	Name	Exam_1	Exam_2	Exam_3	Exam_4
1	"Maximum Mark"	10	10	10	10
2	"Kacie Stephenson"	4	5	8	10
3	"Yassin Jordan"	3	9	5	7
4	"Lowri Mathews"	6	10	7	4
5	"Tiya Sheridan"	8	7	6	6
6	"Nikola Forrest"	0	5	5	10
7	"Veer Blair"	7	4	0	2
8	"Isabelle McGrath"	8	9	6	4
9	"Samir Greaves"	4	6	5	9
10	"Zander Kendall"	4	8	10	2
11	"Shahzaib Buckley"	5	7	0	6
12	"Morgan Bush"	5	7	2	8
13	"Amaan Robbins"	0	9	5	8
14	"Theodore Lawson"	9	2	2	9
15	"Ace Branch"	9	9	3	6
16	"Anthony Bernard"	10	9	9	9
17	"Tobey Bell"	9	0	8	6
18	"Jannat Cassidy"	4	5	9	3
19	"Imran Marquez"	10	0	7	5
20	"Amani Castro"	7	6	8	4
21	"Blanka Holt"	6	0	7	10

sortedGrades = 21x5 table

	Name	Exam_1	Exam_2	Exam_3	Exam_4
1	"Maximum Mark"	10	10	10	10
2	"Anthony Bernard"	10	9	9	9
3	"Imran Marquez"	10	0	7	5
4	"Ace Branch"	9	9	3	6
5	"Theodore Lawson"	9	2	2	9
6	"Tobey Bell"	9	0	8	6
7	"Isabelle McGrath"	8	9	6	4
8	"Tiya Sheridan"	8	7	6	6

	Name	Exam_1	Exam_2	Exam_3	Exam_4
9	"Amani Castro"	7	6	8	4
10	"Veer Blair"	7	4	0	2
11	"Lowri Mathews"	6	10	7	4
12	"Blanka Holt"	6	0	7	10
13	"Morgan Bush"	5	7	2	8
14	"Shahzaib Buckley"	5	7	0	6
15	"Zander Kendall"	4	8	10	2
16	"Samir Greaves"	4	6	5	9
17	"Jannat Cassidy"	4	5	9	3
18	"Kacie Stephenson"	4	5	8	10
19	"Yassin Jordan"	3	9	5	7
20	"Amaan Robbins"	0	9	5	8
21	"Nikola Forrest"	0	5	5	10

topStudent = 1x5 table

	Name	Exam_1	Exam_2	Exam_3	Exam_4
1	"Anthony Bernard"	10	9	9	9

Name =
"Anthony Bernard"

totalMark = 37

(c)

table = 21x11 table

	Name	ID_Number	Lab_1	Lab_2	Lab_3	Lab_4	Midterm	Final	Project	Assignment
1	"Maximum Mark"	"0"	10	10	10	10	20	10	10	10
2	"Kacie Stephenson"	"1803933"	7	2	9	0	9	0	0	9
3	"Yassin Jordan"	"1884159"	1	2	10	3	8	3	3	8
4	"Lowri Mathews"	"1853847"	2	0	0	2	17	2	2	17
5	"Tiya Sheridan"	"1810192"	7	1	0	6	15	6	6	15
6	"Nikola Forrest"	"1891352"	1	7	0	6	5	6	6	5
7	"Veer Blair"	"1811313"	4	8	5	3	12	3	3	12
8	"Isabelle McGrath"	"1804841"	6	7	4	0	13	0	0	13
9	"Samir Greaves"	"1881925"	9	3	7	1	6	1	1	6
10	"Zander Kendall"	"1877711"	8	10	5	4	17	4	4	17
11	"Shahzaib Buckley"	"1830894"	4	5	7	9	8	9	9	8

	Name	ID_Number	Lab_1	Lab_2	Lab_3	Lab_4	Midterm
12	"Morgan Bush"	"1855191"	9	6	7	10	1
13	"Amaan Robbins"	"1821012"	1	8	4	4	8
14	"Theodore Lawson"	"1844339"	5	7	10	7	14
15	"Ace Branch"	"1898468"	2	1	3	7	11
16	"Anthony Bernard"	"1883633"	4	1	10	8	19
17	"Tobey Bell"	"1808742"	0	10	8	2	10
18	"Jannat Cassidy"	"1863450"	1	2	4	5	10
19	"Imran Marquez"	"1830190"	2	9	1	6	17
20	"Amani Castro"	"1835544"	8	9	5	7	3
21	"Blanka Holt"	"1820930"	6	5	2	0	8

gradesTable = 21x9 table

...

	Name	Lab_1	Lab_2	Lab_3	Lab_4	Exam_1	Exam_2
1	"Maximum Mark"	10	10	10	10	10	10
2	"Kacie Stephenson"	7	2	9	0	4	5
3	"Yassin Jordan"	1	2	10	3	3	9
4	"Lowri Mathews"	2	0	0	2	6	10
5	"Tiya Sheridan"	7	1	0	6	8	7
6	"Nikola Forrest"	1	7	0	6	0	5
7	"Veer Blair"	4	8	5	3	7	4
8	"Isabelle McGrath"	6	7	4	0	8	9
9	"Samir Greaves"	9	3	7	1	4	6
10	"Zander Kendall"	8	10	5	4	4	8
11	"Shahzaib Buckley"	4	5	7	9	5	7
12	"Morgan Bush"	9	6	7	10	5	7
13	"Amaan Robbins"	1	8	4	4	0	9
14	"Theodore Lawson"	5	7	10	7	9	2
15	"Ace Branch"	2	1	3	7	9	9
16	"Anthony Bernard"	4	1	10	8	10	9
17	"Tobey Bell"	0	10	8	2	9	0
18	"Jannat Cassidy"	1	2	4	5	4	5
19	"Imran Marquez"	2	9	1	6	10	0
20	"Amani Castro"	8	9	5	7	7	6
21	"Blanka Holt"	6	5	2	0	6	0

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sortedGrades = 21x9 table
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	Name	Lab_1	Lab_2	Lab_3	Lab_4	Exam_1	Exam_2	
1	"Maximum Mark"	10	10	10	10	10	10	10
2	"Anthony Bernard"	4	1	10	8	10	9	
3	"Imran Marquez"	2	9	1	6	10	0	
4	"Ace Branch"	2	1	3	7	9	9	
5	"Theodore Lawson"	5	7	10	7	9	2	
6	"Tobey Bell"	0	10	8	2	9	0	
7	"Isabelle McGrath"	6	7	4	0	8	9	
8	"Tiya Sheridan"	7	1	0	6	8	7	
9	"Amani Castro"	8	9	5	7	7	6	
10	"Veer Blair"	4	8	5	3	7	4	
11	"Lowri Mathews"	2	0	0	2	6	10	
12	"Blanka Holt"	6	5	2	0	6	0	
13	"Morgan Bush"	9	6	7	10	5	7	
14	"Shahzaib Buckley"	4	5	7	9	5	7	
15	"Zander Kendall"	8	10	5	4	4	8	
16	"Samir Greaves"	9	3	7	1	4	6	
17	"Jannat Cassidy"	1	2	4	5	4	5	
18	"Kacie Stephenson"	7	2	9	0	4	5	
19	"Yassin Jordan"	1	2	10	3	3	9	
20	"Amaan Robbins"	1	8	4	4	0	9	
21	"Nikola Forrest"	1	7	0	6	0	5	

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topStudent = 1x9 table
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	Name	Lab_1	Lab_2	Lab_3	Lab_4	Exam_1	Exam_2	Exam_3
1	"Anthony Bernard"	4	1	10	8	10	9	9

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Name =  
"Anthony Bernard"
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```
totalMark = 60
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(d)

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table = 21x11 table
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	Name	ID_Number	Lab_1	Lab_2	Lab_3	Lab_4	Midterm			
1	"Maximum Mark"	"0"	10	10	10	10	20			

	Name	ID_Number	Lab_1	Lab_2	Lab_3	Lab_4	Midterm
2	"Kacie Stephenson"	"1803933"	7	2	9	0	9
3	"Yassin Jordan"	"1884159"	1	2	10	3	8
4	"Lowri Mathews"	"1853847"	2	0	0	2	17
5	"Tiya Sheridan"	"1810192"	7	1	0	6	15
6	"Nikola Forrest"	"1891352"	1	7	0	6	5
7	"Veer Blair"	"1811313"	4	8	5	3	12
8	"Isabelle McGrath"	"1804841"	6	7	4	0	13
9	"Samir Greaves"	"1881925"	9	3	7	1	6
10	"Zander Kendall"	"1877711"	8	10	5	4	17
11	"Shahzaib Buckley"	"1830894"	4	5	7	9	8
12	"Morgan Bush"	"1855191"	9	6	7	10	1
13	"Amaan Robbins"	"1821012"	1	8	4	4	8
14	"Theodore Lawson"	"1844339"	5	7	10	7	14
15	"Ace Branch"	"1898468"	2	1	3	7	11
16	"Anthony Bernard"	"1883633"	4	1	10	8	19
17	"Tobey Bell"	"1808742"	0	10	8	2	10
18	"Jannat Cassidy"	"1863450"	1	2	4	5	10
19	"Imran Marquez"	"1830190"	2	9	1	6	17
20	"Amani Castro"	"1835544"	8	9	5	7	3
21	"Blanka Holt"	"1820930"	6	5	2	0	8

```
newRow1 = 1x11 cell
```

	1	2	3	4	5	6	7	8
1	Jasmine Dosanjh	400531879	100	78	52	44	100	78

```
newRow2 = 1x11 cell
```

	1	2	3	4	5	6	7	8
1	Warisha Noushad	400519903	88	90	47	21	99	78

```
table = 23x11 table
```

	Name	ID_Number	Lab_1	Lab_2	Lab_3	Lab_4	Midterm
1	"Maximum Mark"	"0"	10	10	10	10	20
2	"Kacie Stephenson"	"1803933"	7	2	9	0	9
3	"Yassin Jordan"	"1884159"	1	2	10	3	8
4	"Lowri Mathews"	"1853847"	2	0	0	2	17

	Name	ID_Number	Lab_1	Lab_2	Lab_3	Lab_4	Midterm
5	"Tiya Sheridan"	"1810192"	7	1	0	6	15
6	"Nikola Forrest"	"1891352"	1	7	0	6	5
7	"Veer Blair"	"1811313"	4	8	5	3	12
8	"Isabelle McGrath"	"1804841"	6	7	4	0	13
9	"Samir Greaves"	"1881925"	9	3	7	1	6
10	"Zander Kendall"	"1877711"	8	10	5	4	17
11	"Shahzaib Buckley"	"1830894"	4	5	7	9	8
12	"Morgan Bush"	"1855191"	9	6	7	10	1
13	"Amaan Robbins"	"1821012"	1	8	4	4	8
14	"Theodore Lawson"	"1844339"	5	7	10	7	14
15	"Ace Branch"	"1898468"	2	1	3	7	11
16	"Anthony Bernard"	"1883633"	4	1	10	8	19
17	"Tobey Bell"	"1808742"	0	10	8	2	10
18	"Jannat Cassidy"	"1863450"	1	2	4	5	10
19	"Imran Marquez"	"1830190"	2	9	1	6	17
20	"Amani Castro"	"1835544"	8	9	5	7	3
21	"Blanka Holt"	"1820930"	6	5	2	0	8
22	"Jasmine Dosanjh"	"400531879"	100	78	52	44	100
23	"Warisha Noushad"	"400519903"	88	90	47	21	99