AP Computer Science A
Ticket Out the Door
Set 22: 2D Arrays

Name _____ Period _____

Skill 22.01 Exercise 1

Refer to the image below to answer the following,

gradebook

	Assignment 1	**Assignment 2**	**Assignment 3**	**Assignment 4**	**Assignment 5**
Bart	4.5	1	5	2	4
Kyle	R	5	4	2	2.5
Bugs	1	2	3	4	3
Marvin	4	M	3	3.5	4

What is the row and column associated with Kyle's score on Assignment 3?	
What is the value associated with the following location: row = 3, col = 2	
What is the length of row = 2?	
What is the length of column 5?	

Skill 22.02 Exercise 1

Consider the following a matrix

5	-16	9	21
22	19	-101	36
18	17	64	-2

(a) Write a single line of code that could be used to declare and initialize the size of the array above, but do not populate it with values.

(b) Write a single line of code that will create the above integer array and populate it with values.

(c) Write a line of code that will printout the array element occupied by -101

(d) Write a single line of code that will change value occupied by -2 to 2

(e) What is the value associated with a[2][1]?

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Skill 22.03 Exercise 1

Refer to the gradebook array below which creates a 2D array of grades.

```
String gradebook[][]={{"5","4.5","3","4"},
{"2","3","2.5","4","R","3.5"},
{"4","1","3.5","5","4","1","5"},
{"5","2","3.5","3","4.5"}};
```

(a) What is the length of each row?

(b) Write code to print the length of the first row and the last row,

Skill 22.04 Exercise 1

Refer to the gradebook array below which creates a 2D array of grades.

```
String gradebook[][]={{"5","4.5","3","4"},
{"2","3","2.5","4","R","3.5"},
{"4","1","3.5","5","4","1","5"},
{"5","2","3.5","3","4.5"}};
```

(a) Write code to print out all the values in the array in a table format

(b) A new student has joined the class. Declare a new array that can accommodate one more student with 5 assignments. Write code to copy the all the values from the gradebook array to this array.