Hisham Hussein Time and space analysis 08/22/2018

Time and space analysis:

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Function Name	Time analysis O()	Space analysis O()		
int main(){ }	O(n ⁹)	O(n ¹⁰)		
void sideViewTaken()	O(n)	O(n)		
void frontViewTaken()	O(n)	O(n)		
crate * findMaxFrontView(int col)	O(n)	O(n)		
crate * findMaxSideView(int row)	O(n)	O(n)		
void pushBackVector(int x)	O(n)	O(n²)		
void swapMartix()	O(n²)	O(n²)		
int topView()	O(n²)	O(n²)		

Test plan:

Reason for the test,	Actual input data	expected output data,	actual output.
What will happened if	5 5	9	9
we put matching number	14052		
in rows and in column	21201		
	02344		
	03031		
	12211		
What will happened if a	23	30	30
number in column has	50 20 3		
and row have the same	20 10 3		
numbers. Will the			
program skip it and take			
online one of them to			
steal			
What will happen if	3 4	5	5
rows have same	1233		
numbers as tie will that	1322		
count it or it will skip and	2221		
take one number of tie.	_		
Will the program exit if	Program exit	Program exit	Exit
the rows and column			
goes above 100			
Will the program going	5 5	6	6
to swap the zeros or the	12032		
1 during the find and	3 3 2 0 1		
swapping process	02345		
	03001		
	11201		
	11201		