


National University of Computer and Emerging Sciences, Lahore Campus

	Course:	Design and Analysis of Algorithms	Course Code:	CS302
	Program:	BS(Computer Science)	Semester:	Spring 2018
	Duration:	10 Minutes	Total Marks:	10
	Paper Date:	6-Feb-18	Weight	4
	Section:	D	Page(s):	1
	Exam:	Quiz 1	Roll No:	
			Section:	

Write down the recurrence relation for the following algorithm and analyze its time complexity using iteration method. Show complete steps

```
sort(A, n){  
    if(n>1{  
        for i =1 to n  
            if (A[i] > A[i +1]) then  
                swap (A[i], A[i+1])  
        sort(A, n-1)  
    }  
}
```