CS 310 'Algorithms' Homework 5 Due date: Wednesday, November 6, 2019 at 11:00 AM in class.				
Name:				Roll No:
You ar column respect	e given s of A ively. A	are so An exar	orted in mple or	ateger array 'A'. Assume n is a power of 2. The rows and a scending order from left to right and top to bottom of the array is shown below. You have to determine if a t in A or not.
1	20	32	49	
5	27	36	57	
7	28	37	67	
9	29	38	76	
				ır algorithm orithm in Big-Oh notation

Can you design an algorithm that solves this problem in linear time O(n)? If yes, then describe it in clear steps (do NOT write C code). <i>Illustrate your</i>					
algorithm using figures.					