

INFO6205_Spring2019_Sect...

Question - 1 Binary Search	SCORE: 20 points
Implement Binary Search, given an array of integers in numerical order.	
Question - 2 Performance	SCORE: 5 points
You have a problem whose execution time is a polynomial function of N, the number of elements in the problem. That's to say: $t = cN^k$ Which of the following techniques might you consider to reduce the execution time (check all that apply)?	
lessen the coefficient c (e.g. by running on a faster computer);	
Effectively reduce the size of N by dividing the problem into smaller, independent sub-	
problems (provided that the cost of recombining the solutions doesn't outweigh the benefit).	
Specifying a different value of the exponent k.	

