Questions

Question 1 20 ptsWrite a function to set all elements in an array to a given value:void setValue(int arr[ ], int n, int value){Question 2 40 ptsFind out the time efficiency for the above function T(n) in simplified model. You need to explain how you get the final result.

From the for loop line its occurring O(n)

Since the arr[i]=value line is setting it to the same value every time this is O(1)

So this makes the time complexity

T=O(n)+O(1)

This is because the n (amount of inputs) will very but the assignment should only take 1 (a constant)

Question 3 40 ptsShow that T(n) = O(n). You need to show steps in your answer.