Zach Luciano & Daniel Rao

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Homework 2 Question 4

If we break apart the question, we can see that we are dealing with 3 different parts. We need to note that , , and that . Now knowing this we can see that the max of are going to be less than the two of them combined and the two of them combined will be less that twice the max of one of them. We can see now that is going to be in the same order of time as .