Subject: #6-8 linear sorts  
Posted by Bdwilliams5 on Wed, 17 Feb 2016 23:26:27 GMT  
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I am having trouble understanding what the recurrence equations for these should be. Can anyone explain the logic behind it?

Subject: Re: #6-8 linear sorts  
Posted by padietl on Wed, 17 Feb 2016 23:40:05 GMT  
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Yes I am also having trouble.

Subject: Re: #6-8 linear sorts  
Posted by lusth on Thu, 18 Feb 2016 00:25:10 GMT  
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The first T is finding the median of medians. The second T represents the recursion on larger partition. The work done at any level is finding the groups of a given size and their medians plus the work to partition (which all together is \(\theta(n)\))

If you know that there are at least \(X\) values greater/smaller than the median, then the larger partition will be \(n - x\).

Subject: Re: #6-8 linear sorts  
Posted by Bdwilliams5 on Thu, 18 Feb 2016 01:03:01 GMT  
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That is very helpful, thank you.

Subject: Re: #6-8 linear sorts  
Posted by padietl on Thu, 18 Feb 2016 13:54:21 GMT  
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Likewise thanks