Subject: #6-8 linear sorts  
Posted by Bdwilliams5 on Wed, 17 Feb 2016 23:26:27 GMT

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

Yes I am also having trouble.

Subject: Re: #6-8 linear sorts  
Posted by lusht on Thu, 18 Feb 2016 00:25:10 GMT

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

That is very helpful, thank you.

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

Likewise thanks.