

HW 1.

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1. $T(n) = \Theta(n^3 \log^2 n)$

2. ~~Kata~~ $n^{\log_{10} 1000} = n^3$ vs. $(2n^5 \log n)$

$$h(n) = \Theta(n^5 \log n)$$

3. IDK.

4.

Problem 2.

1. Divide the teams into two groups, and ~~have them~~ recursively design a RR tournament for each half.

$$2. T(n) = 2T(n/2) + 1.$$

$$3. T(n) = \Theta(n)$$