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349 Lab #3 - Greedy Algorithms

Algorithm pseudocode

totalTime = 0
stragglerTime = 0

Given a set of campers, S, each camper, C, in the set has swimming time, Cs, biking time, Cb, and running time, Cr.

Sort the list in decreasing order in terms of Cb + Cr for each camper.

The order of the campers can be determined by this sorted set. The next camper to enter the race is the one at the beginning of the set.

Each time a camper, C, is removed, add Cs to totalTime. Additionally, subtract Cs from stragglerTime. After doing so, if stragglerTime is less than Cb + Cr, stragglerTime is now Cb + Cr

Add stragglerTime to totalTime.