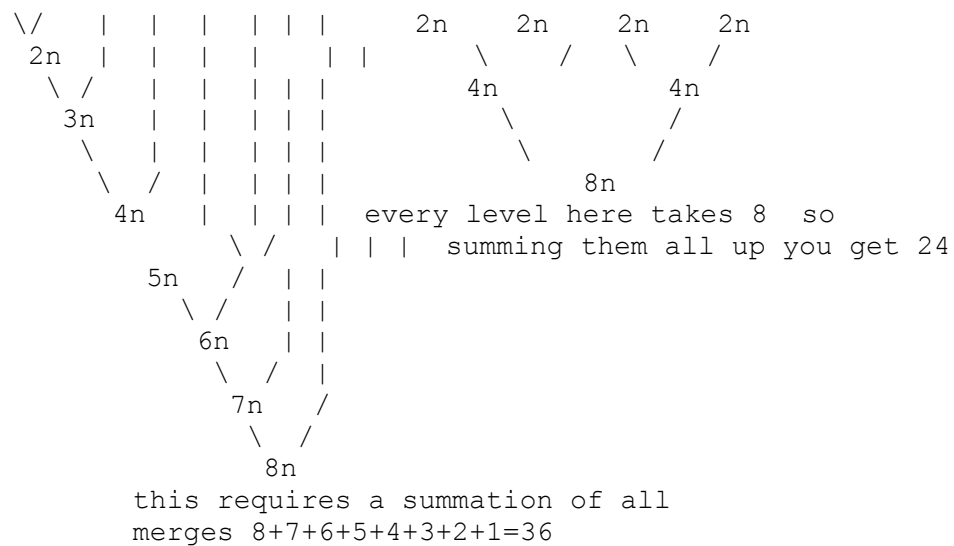


On my honor, as a University of Colorado at Boulder student, I have neither given nor received unauthorized assistance on this work.

2. best case run time for a comparison sorting algorithm would be that the list is already sorted and in one go of comparisons the list is returned

we can express this running time as a function $an+b$ for some constants a and b that depend on the costs c_i ; it is therefore a linear function of n

- 3.
- | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|
| n | n | n | n | n | n | n | n | | n | n | n | n | n | n | n | n | |
| | | | | | | | | | | \ | / | \ | / | \ | / | \ | / |



4.

TSLA
date range: 2010/06/29 - 2015/09/22
buy on: 2010/07/08
sell on: 2014/09/03
Maximum Profit: 271.53

PG
date range: 2013/09/23 - 2015/09/22
buy on: 2013/10/01
sell on: 2013/10/30
Maximum Profit: 7.01

KO
date range: 2014/09/22 - 2015/09/22
buy on: 2015/03/16
sell on: 2015/08/06
Maximum Profit: 2.0