1BM19CS219   MAHANTESH GATTINA

QUICK SORT OUTPUT AND GRAPH

~/ada/lab8/ $ make quicksort
clang -ggdb3 -O0 -std=c11 -Wall -Werror -Wextra -Wno-sign-compare
-Wno-unused-parameter -Wno-unused-variable -Ws
Do you want to enter them manually?
n

time taken for 50 inputs = 0.221103 seconds

time taken for 100 inputs = 0.632286 seconds

time taken for 150 inputs = 1.067462 seconds

time taken for 200 inputs = 1.424595 seconds

time taken for 250 inputs = 2.136053 seconds

time taken for 300 inputs = 2.546412 seconds

time taken for 350 inputs = 3.308360 seconds

time taken for 400 inputs = 3.939805 seconds

time taken for 450 inputs = 4.214132 seconds

time taken for 500 inputs = 4.572009 seconds

time taken for 550 inputs = 6.326271 seconds

time taken for 600 inputs = 5.563697 seconds

time taken for 650 inputs = 5.826708 seconds

time taken for 700 inputs = 6.706693 seconds

time taken for 750 inputs = 7.388963 seconds

time taken for 800 inputs = 8.588174 seconds

time taken for 850 inputs = 7.777302 seconds

time taken for 900 inputs = 8.115060 seconds

time taken for 950 inputs = 9.165670 seconds

time taken for 1000 inputs = 9.890389 seconds
~/ada/lab8/ $

time in seconds vs. input size
QUICK SORT FOR RANDOM INPUT