

# Quiz 0

This is test of Google Quiz to replace Midterm Exam by google multiple choice quizzes and a take home exercise

Name and ID \*

Richard Einstein Brower 9209234234

## True and False questions

Answer True or False to each of the questions below. Answer true only if it is true as stated, with no additional assumptions. Add an explanation. This can give you partial credit even if you answer is wrong.

The best median finding algorithm is on average  $\Theta(N)$  but worst case  $\Theta(N^2)$

False: The method of recursive sorting into groups of  $N/5$  is  $\Theta(N)$

Consider the array [2, 20, 3, 21, 90, 4, 23, 22]. This array has elements in order of a min-heap.

True -- It works when drawing the heap

A connected undirected acyclic graph is a binary tree.

False: Not necessarily a BINARY tree

There are 6 distinct binary search trees that include only the numbers 1,2,3

True It is  $3! = 6$

This form was created inside of Boston University.

Google Forms