Comp2080

Assignment 1 Part 1

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1. Daffy

Daffy method is using O(n) algorithm because the time for processing is increased proportionally to value of n.

1. Donald

From the graph it is clear that data processing time is increasing with the value of n, but not proportionately. Which concludes that Donald method is using O(log n) algorithm.

1. Mickey

From the graph it is clear that data processing time is increasing with the value of n, but not proportionately. Which concludes that Mickey method is using O(log n) algorithm.

1. Minnie

Minnie runs on an O(log n) algorithm because time does increase, but not proportionate with the data set.

1. Goofy

Goofy method is using O(log n) algorithm because the time to process each data set does increase with the size, but not proportionately.

1. Pluto

From the graph it is clear that data processing time is increasing with the value of n, but not proportionately. From this conclusion arises that Pluto is run on O(log n) algorithm.

1. Fact

Fact method runs on a O(n2) algorithm because the time taken to process a larger data set increases the bigger the data grows.