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**Algorithms Assigment 1**

1. **Analysis of median of median , randomized quick sort and native sort approaches**

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**Performance chart with all records :-**

Chart, line chart

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**Performance chart without last record :-**

Chart, line chart

Description automatically generated

**From resulted analysis and chart :**

**It's clear that**

**Randomized quick sort is best approach**

**Then comes Native approach**

**Median of median was the worst**

**Theoretically median of median algorithm should have been the best O(n)**

**However in practice it was the worst dueto the large cofficient before the linear factor which we neglect when computing the time complexity**

**The performance was for randomized quick sort**

**And native approach was moderate but still much more good than median of median**