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Timing data

1分

Consider the following timing data:

size	time
n=5	7.5 μ s
n=10	20.7 μ s
n=50	378 μ s
n=100	1.44 ms
n=200	6.72 ms
n=300	13.4 ms
n=400	27.5 ms
n=500	40.4 ms
n=1000	183 ms

What can we conclude from this data?

选项*

- ☐ $n \approx 0.08 \cdot t$
- ☐ Growth in time is exponential
- ☐ $t \sim n$
- ☐ $t \sim n^2$

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