Lista 1

Province datable & Practice 2022 12:00

1

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Province of alarms - 10° - 10° 11

length of binary string - 520

$$2^{500} = 2^{10} = (10^{3}) = 10^{350}$$
 $10^{500} > 10^{82}$

2

Mose of Sort Quick Sort May 2 mbgs 1

1 compact sinoun - 1, 2 ms 1 - 120000 ms = 1 2 ms 1 - 1000

15) $1000^{7} \cdot 12 \text{ ms} = 1200000 \text{ ms} = 12 \text{ ms} = 1, 000, 000$

15) $1.2 \cdot 10^{2} \text{ ns} = 1.2 \cdot 10^{3} \text{ s} = 20 \text{ min}$

QS) $33157225 \text{ ns} \approx 33 \text{ ms}$
 $n = 200, 000, 00$

15) $48 \cdot 10^{16} \text{ ns} = 4 \cdot 8 \cdot 10^{9} \approx 1.5 \text{ y}$

QS) 8.8 s
 $1 \text{ day} = 86600 \text{ s} = 8.64 \cdot 10^{13} \text{ ms}$

15) $12 \cdot n^{2} = 8.64 \cdot 10^{13} \text{ ms}$
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 1

|= 12

(6) |n n| = n |n n - n

 $> \frac{\ln(2m)-1}{\ln(m)}$

111

 $\cos x = -\frac{1}{1216} = -\frac{1}{140}$

 $\binom{2n}{n} = \frac{(2n)!}{n!(2n-n)!} = \frac{(2n)!}{2(n!)} =$

 $=\frac{2n\ln(2n)-2n}{2(n\ln n-n)}-\frac{n\ln(2n)-n}{n\ln n-n}$