ADA mini homework 12
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assume we have to add to number n

first digit total cost = $2^1 \times \frac{\log n}{2^0}$

second digit total cost = $2^2 \times \frac{\log n}{2^1}$

m-th digit total cost = $2^m \times \frac{\log n}{2^{m-1}}$

total cost = $O(n\log n)$

cost per increment = $O(\log n)$