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Linear Bounded Automata LBA definition: TM that is prohibited from moving head off right side of input. - machine prevents such a move, just like a TM prevents a move off left of tape · How many possible configurations for a LBA M on input w with |w| = n, m states, and  $p = |\Gamma|$ ? - counting gives: mnp<sup>n</sup> February 5, 2025 CS21 Lecture 13



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