







Multitape TMs ... Repeat: a b a b T • scan tape, remembering the symbols under each virtual head in the state a a (how many new states needed?) T • make changes to reflect 1 step of M bbcd · if hit #, shift to right to make room $\widehat{}$ if M halts, erase all but 1st string # a **b** a b # **g** a # b b **g** d # . . . January 29, 2025 CS21 Lecture 10 5

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Proof:

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with w.