A = $(\{\#, a, b\}, \{q, v\}, \{a, b, \epsilon\}, \delta, \#, q, \{v\})$

- 1. #qa → #aq
- 2. #qb → #bq
- 3. aqa → aaq
- 4. bqb \rightarrow bbq
- 5. aqb → q
- 6. bqa → q
- 7. #qε → #v