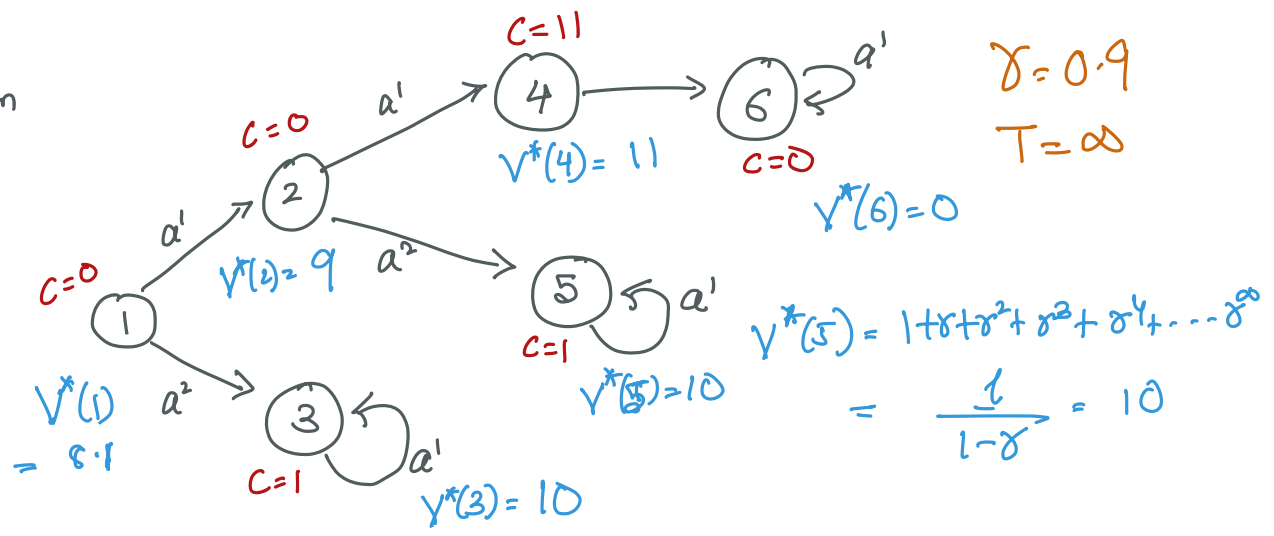


Q1. What is the optimal action at state 1?

Q2. What is the optimal value $V^*(1)$?



$$V^*(5) = 1 + \gamma + \gamma^2 + \gamma^2 + \gamma^4 + \dots + \gamma^\infty$$

$$= \frac{1}{1-\gamma} = 10$$

BEZHAN Eq:

$$V^*(s) = \min_a \left[c(s,a) + \gamma \mathbb{E}_{s' \sim T(s,a)} V^*(s') \right]$$