Equações de Bellman

$$U^{\pi}(s) = \mathrm{E}\left\langle r_1 + \gamma r_2 + \gamma^2 r_3 + \ldots \right\rangle$$

$$= \mathrm{E}\left\langle r_1 + \gamma U^{\pi}(s') \right\rangle$$

$$= \sum_a \pi(s,a) \sum_{s'} T(s,a,s') \left[R(s,a,s') + \gamma U^{\pi}(s') \right]$$