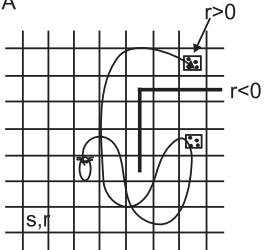


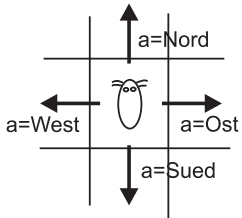




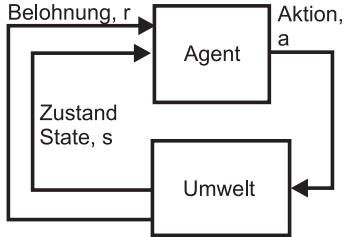
A



B



C













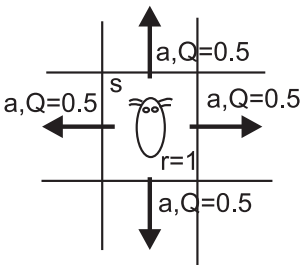




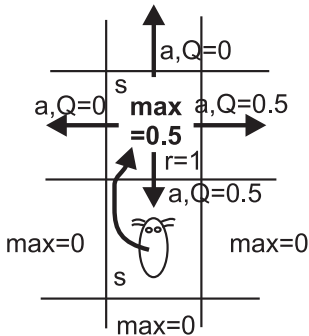




A



B



Q. E. D.

$$Q(s, a) \leftarrow Q(s, a) + \underbrace{\alpha \left[r(s) + \gamma \max_{a'} Q(s', a') - Q(s, a) \right]}_{\delta(s, a)}$$







1234567890

es, es,





$$Q(s,a) = \sum_{t=0}^T \gamma^t r_t$$

$Q(s, \text{Inrd}), Q(s, \text{Sried}), Q(s, \text{Vest}), Q(s, \text{Ost})$