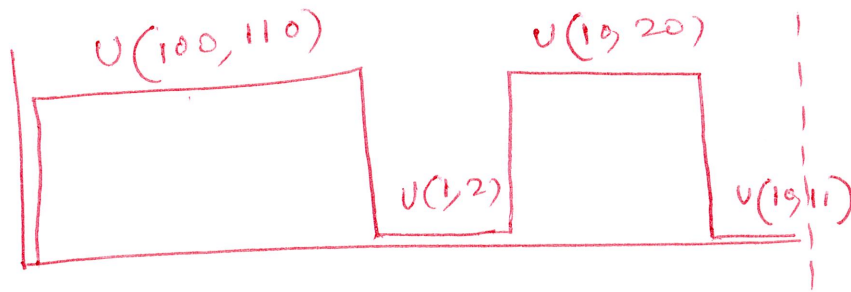


# Availability calculation



$$90\% \quad \frac{105}{105 + 1.5} = \cancel{88.73} \quad 98.59$$

$$10\% \quad \frac{15}{15 + 10.5} = 58.82$$

$$0.9 * 98.59 + 0.1 * 58.82$$

$$= \boxed{94.61\%} \quad \text{Availability}$$

Reliability

$$R(t) = \Pr(\text{No failure in time interval } (0, t))$$

$$t \in (0, 1)$$

Safety

$$S(t) = \Pr(\text{No safety critical failure in } (0, t))$$



$$R(t) \leq S(t)$$

$$R(100) \leq S(100)$$

## Aerial Robots

Name (printed)

Team

Constraints on meeting from 3:30 - 4:30