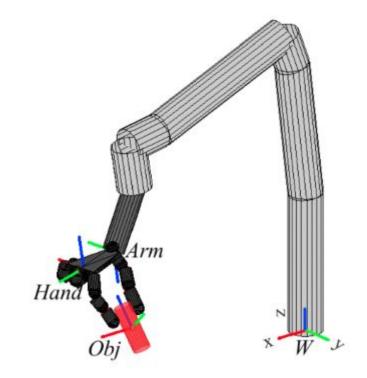
GIANT ROBOTIC ARM OF DEATH

Agent: controller of Giant Death Robotic Arm

Environment: robotic arm itself

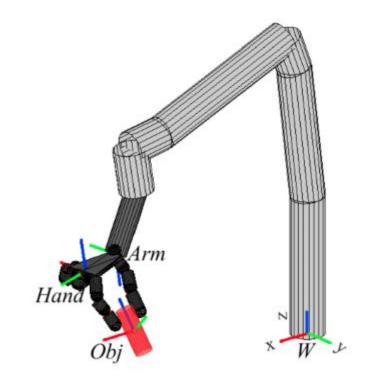
+ its interaction with blocks



GIANT ROBOTIC ARM OF DEATH

Purpose:

- grab and smash people
- take and lift objects

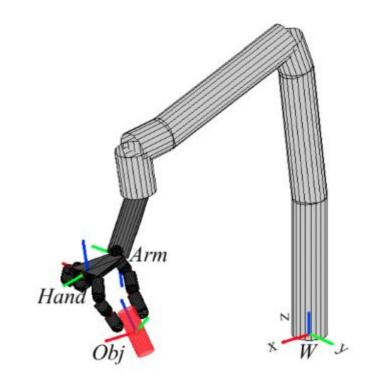


GIANT ROBOTIC ARM OF DEATH

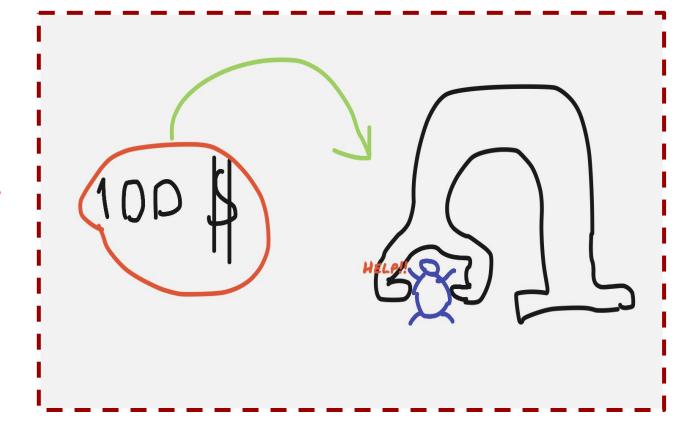
Two (three) stages:

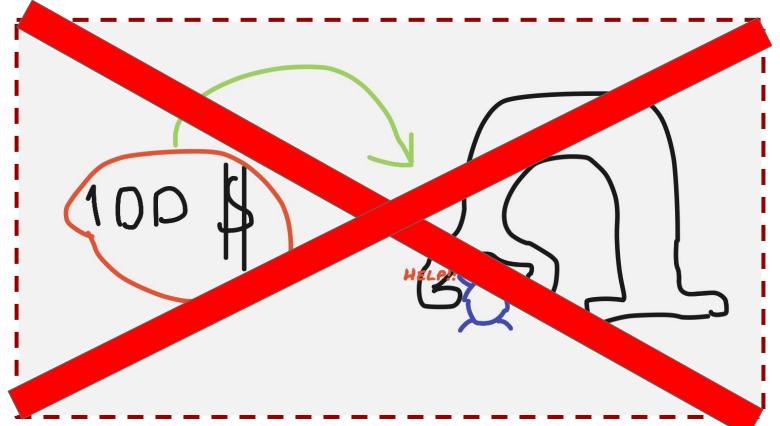
- 1. grasp object
- 2. lift object
- 3. smash object

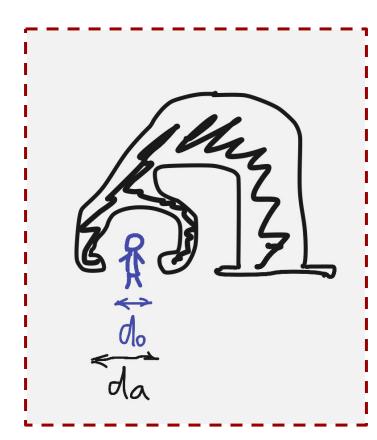


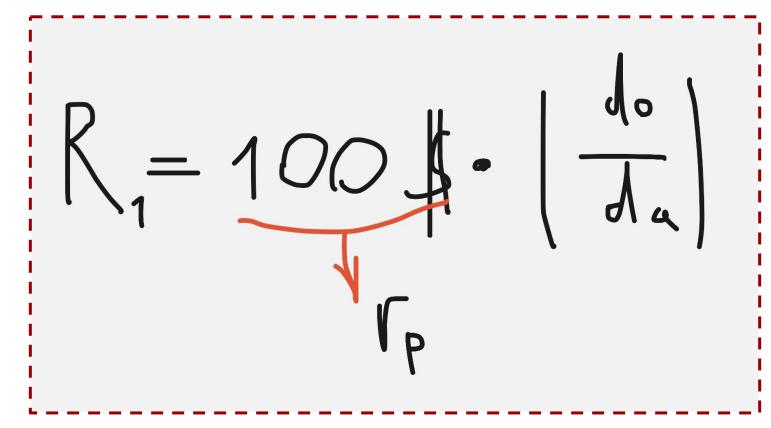


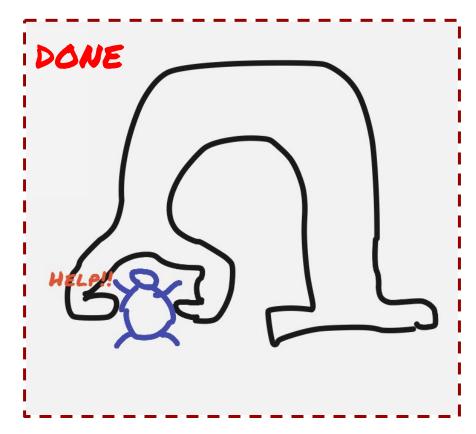
IS IT A GOOD REWARD?



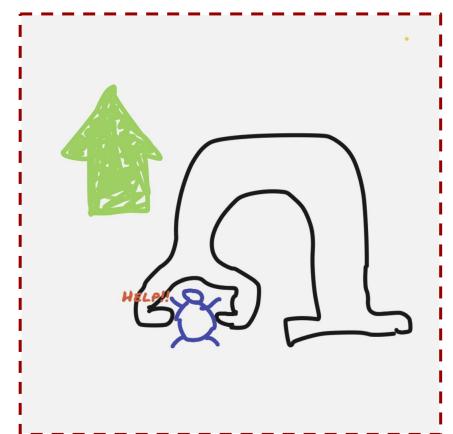


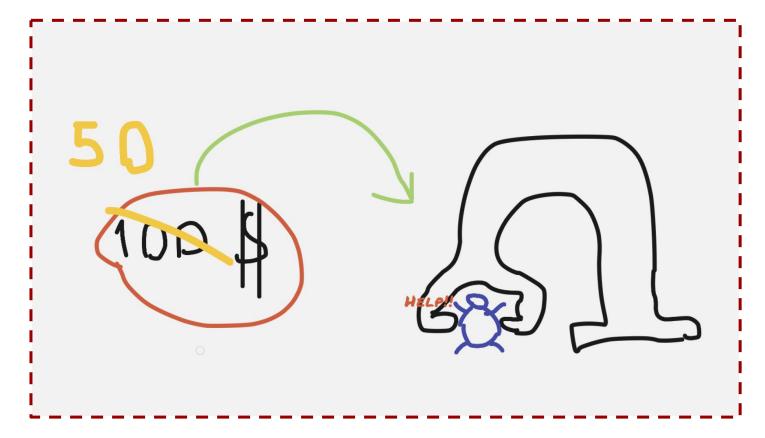


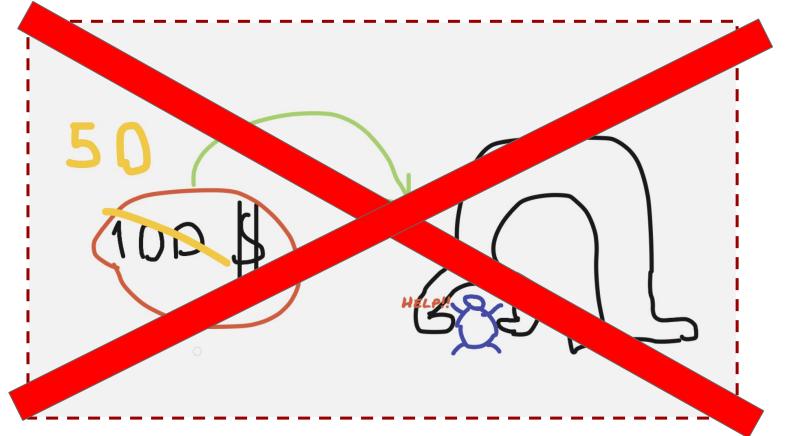




WHAT PROPERTY OF THE REWARD SHOULD HOLD?



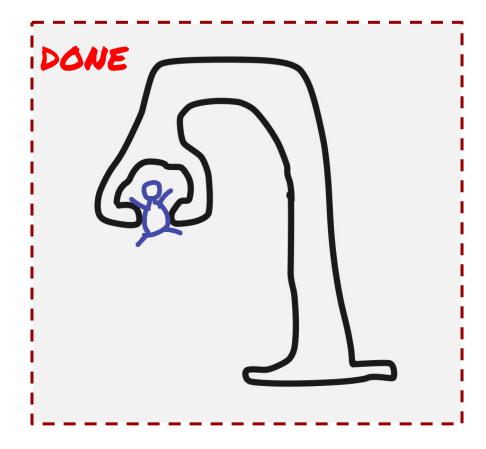




REWARD FOR DEATH ROBOTIC ARM - LIFTING

$$R = r_p + r_e * \left(\frac{h_o}{h_t}\right)$$

$$= \frac{h_0}{h_t}^2$$



REPOR GIANT ROBOTIC ARM OF DEATH - SMASHING

CONCLUSION

WE CAN SHAPE THE REWARD IN TIME AND SPACE