Thought Process:

– The catapult arm (order 7 → 8 → 9) is driven by a Rotating Block whose axis is **currently lying horizontally** (orient x+), so the arm sweeps sideways. …

– The two little cubes on the ground (order 5, 6) are **the only supports and break under load**. Attaching one wooden-block beam to the front of each cube forms a small skid that spreads the load. …

– The light base tips because **the long arm and the boulder are far forward**. Adding a ballast cube (ID 35) to each rear side cube (#2 and #3) shifts the center of gravity rearwards.

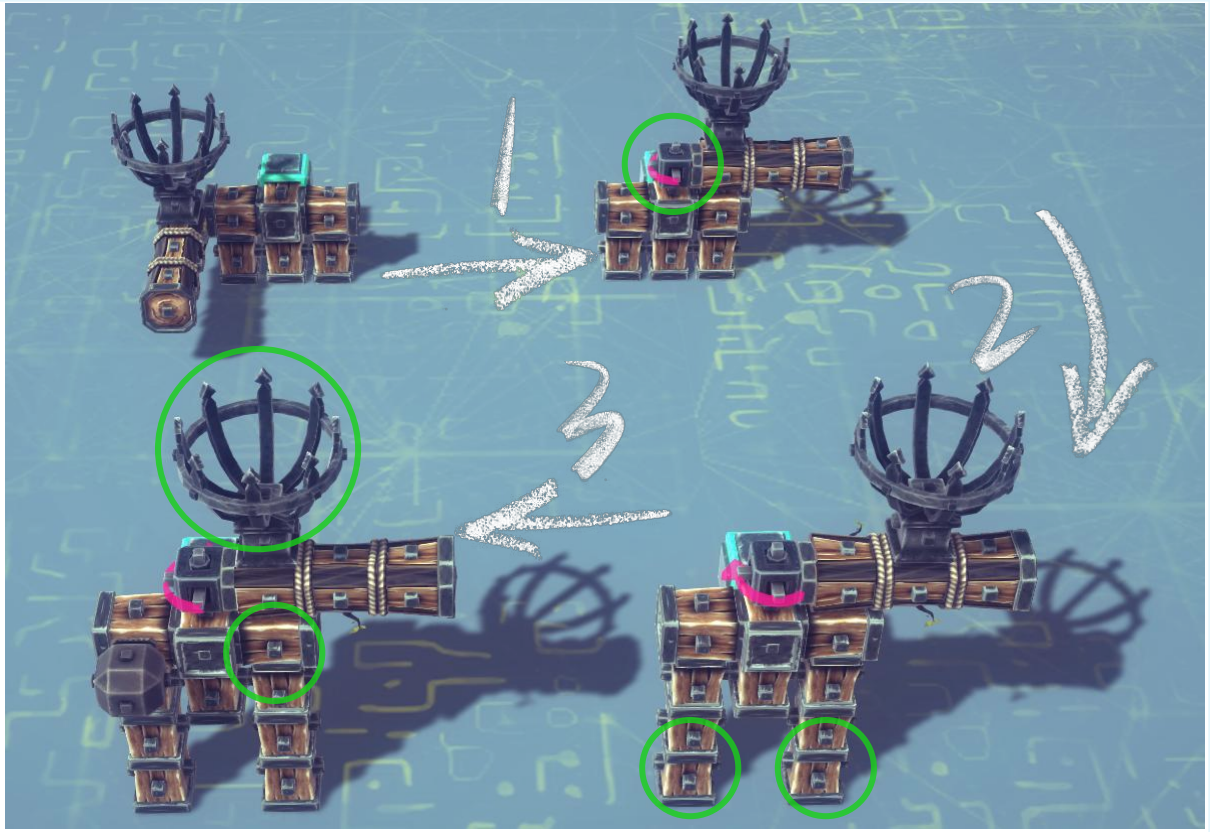
(No Critic of Missing The Boulder)

Modification Description:

1. **Re-attach Rotating Block 7** to the upper build-point of block 1 so that its axis becomes vertical and the arm can pitch upward.
2. **Reinforce the base** by adding a 2-unit wooden beam in front of each ground cube (5, 6).
3. **Add ballast cubes** on the left and right rear frame cubes (2 and 3) to pull the center of gravity back over the supports.

...

(a) o3 CoT




(b) Modification Steps