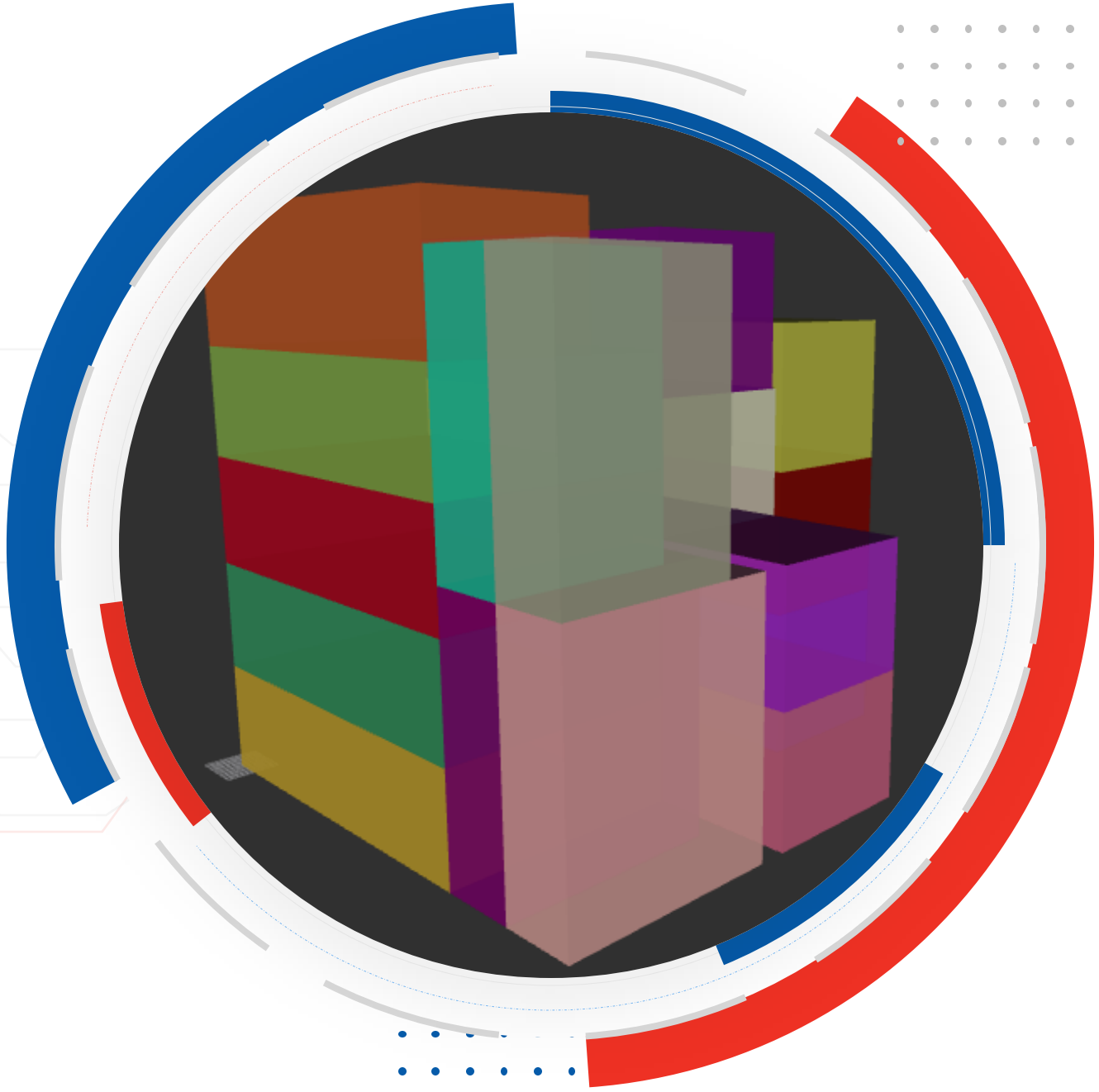
ADDVERB

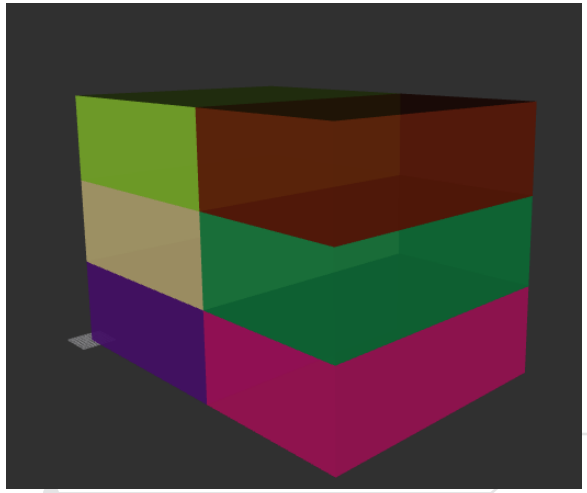
Human | Robot | Possibilities

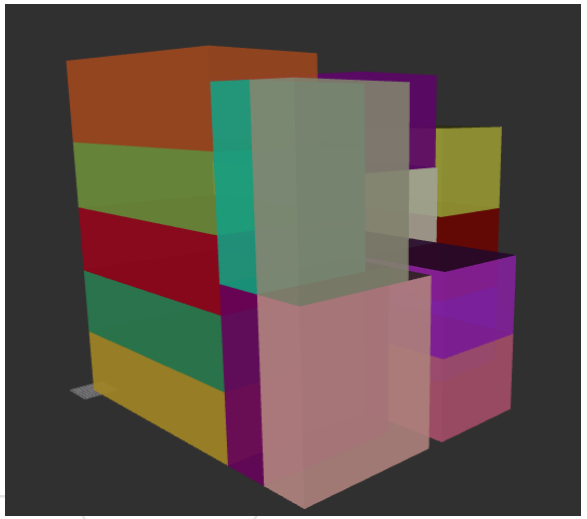
Mixed Palletization

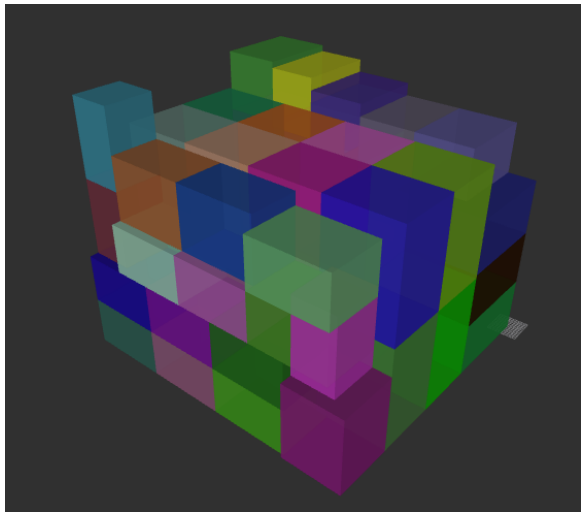


Problem Statement

- Given a series of boxes (LxBxH), write an algorithm to palletize them in the same order.
- The algorithm can will either choose to place the box on the pallet or skip the box.
- The boxes can only be accessed one at a time.
- The pallet should be in a stable state at any given time.
- Boxes cannot overlap on the pallet.







Scoring

- Every boxed placed is 2 points
- Every points skipped is –1 point

- Visualization Multiplier 1.1 (Visualize the final pallet) or,
- Simulation Multiplier 1.3 or (Simulate the complete process, placing of the boxes and pallet formation)

- Final Score = Multiplier *[((2* No. Of boxes placed – No. Of boxes skipped)/No. Of pallets formed)]

Process

- Each team will explain the algorithm with a presentation.
- Showcase results/simulations.
- Submit the code for validation and scoring.


Thank
You