Input Frames

Causal Simulation

Descriptive Q1: How many collisions happen?　　　　　　　**A:** 3　　**GT:** 3

Descriptive Q2: What shape is the first object that enter the scene?　　**A:** cube　　**GT:** cube
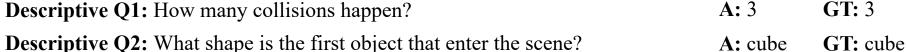
Descriptive Q3: How many cylinders enter the scene after the cube enters?　**A:** 1　　**GT:** 1

Descriptive Q4: What color is the object that is stationary?　　**A:** brown　**GT:** brown

Explanatory Q: Which of the following is not responsible for the collision between the yellow cylinder and the sphere?

a)　The presence of the red cube.　　　　　　　**A:** True　　**GT:** True
b)　The collision between the cube and the cyan sphere.　**A:** True　　**GT:** True
c)　The presence of the brown cylinder.　　　　　**A:** False　**GT:** False

Predictive Simulation

Predictive Q: Which event will happen next?

a)　The cyan sphere and the brown cylinder collide.　**A:** False　**GT:** False
b)　The yellow object exits the scene.　　　　　**A:** False　**GT:** False
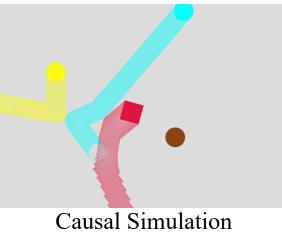
Counterfactual Q: Without the cyan sphere, what will happen?
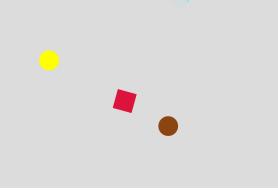
a)　The cube collide with the brown object.　　　**A:** False　**GT:** False
b)　The cube and the yellow object collide.　　　**A:** True　　**GT:** True
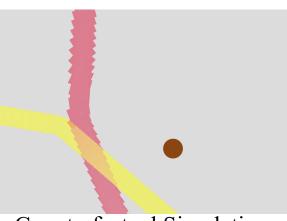c)　The brown cylinder collide with the yellow object.　**A:** False　**GT:** False

Counterfactual Simulation
(without the cyan sphere)