## **Decision Table Based Testing**

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## Conditions:

- 1. 0.25 < Round\_shot.radius > 0
- 2. 10 < Round\_shot.mass > 0

## **Table 1: Decision Table for Round Shot Class**

Conditions	0.25 < Round_shot.radius > 0	F	F	Т	Т
	10 < Round_shot.mass > 0	F	Т	F	Т
Actions	Check Mass	Х		Х	
	Check Radius	Х	Х		
	Valid Result				X

## Conditions:

- 1. cannon.initialSpeed > 0
- 2. cannon.externalForce != [0,0,0]
- 3. 0.25 < Round\_shot.radius > 0
- 4. 10 < Round\_shot.mass > 0
- 5. inProgressSimulation == true

Table 2: Decision Table for Integration Testing

Conditions	cannon.initialSpeed > 0	-	F	Т	Т	Т	Т	F	Т	Т
	cannon.externalForce != [0,0,0]	-	Т	F	Т	Т	Т	F	Т	Т
	Round_shot.radius > 0	-	Т	Т	F	Т	Т	F	Т	Т
	Round_shot.radius < 0.25	-	Т	Т	Т	Т	Т	Т	F	Т
	Round_shot.mass > 0	-	Т	Т	Т	F	Т	F	Т	Т
	Round_shot.mass < 10	-	Т	Т	Т	Т	Т	Т	Т	F
	inProgressSimulation == true	F	Т	Т	Т	Т	Т	F	Т	Т
Actions	Impossible	Х						Х		
	Check Radius				Х				Х	
	Check Mass					Х				Х
	Check Initial Speed		Х							
	Check External Force			Х						
	Output Position						Х			