0	Question: A ball is attached to a pole by a string. The ball is swinging in a circle, and the pole is rotating freely, so that the part of the pole where the string is attached is always facing the ball. Now you stop the pole rotating, so the string starts wrapping around the pole. What happens to the speed of the ball? (ignore effects due to gravity, assume the ball is a point mass)				
	A1: the speed increases		A2: It stays the same		
	Arguments for A1		Arguments for A2		
1	Question: Is angular momentum approximately conserved?		Question: Does the kinetic energy of the ball stay the same?		
	A1: yes	A2: No	A1: yes, approximately; it increases slightly.		
2	Question: If the angular momentum is conserved, then does the ball speed up?		4 Question: If the kinetic energy of the ball stays the same, does its speed		
	A1: yes	A2: Yes	stay the same? A1: Yes A2: Yes		