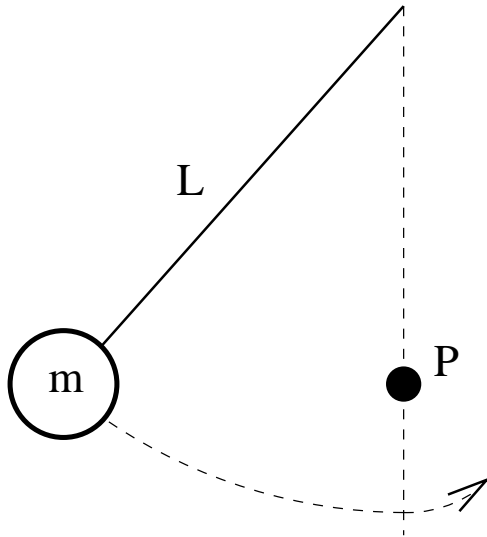


A ball of mass m hangs from a string of length L to form a *pendulum*. The pendulum “bob” is pulled to one side until it is exactly as high as the fixed peg P.



When the pendulum is released and the string hits the peg, how high will the bob go?

1. Higher than the peg.
2. Same height as the peg.
3. Not as high as the peg.