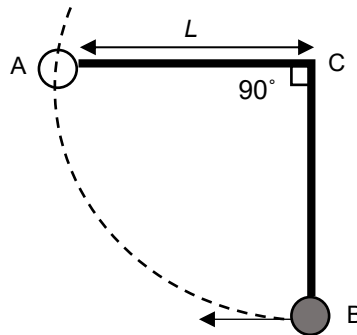9 A simple pendulum consists of a bob of mass *m* at the end of a light and inextensible thread of length L. The other end of the thread is fixed at C. the bob swings through point B with a velocity v and just reaches A, where the string is just taut.

What is the tension in the thread when the bob is at position B?

A *mg*   **B** 2*mg*   **C** 3*mg*   **D** 4*mg*