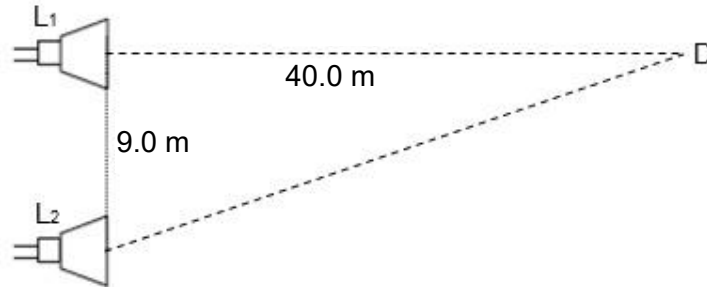


- 16** Two loudspeakers L_1 and L_2 , placed 9.0 m apart, as shown in the diagram, are driven by a common oscillator.

As the frequency of the oscillator increases from zero, the detector at D, placed 40.0 m directly in front of L_1 , recorded a series of maximum and minimum signals.



If the speed of sound is 330 m s^{-1} , at what frequency is the first minimum detected?

- A** 165 Hz **B** 330 Hz **C** 495 Hz **D** 660 Hz