

Beat frequency is

Time period between beats is $T_B = 2.00 \text{ s}$

$$f_0 = 264.0 \text{ Hz}$$

What are the 2 possible frequencies of the string?

From the time period find the beat frequency.

$$f_B = \frac{1}{T_B} = \frac{1}{2.00 \text{ s}} = 0.500 \text{ Hz}$$

∴ The frequencies are

$$f_0 + f_B, \quad f_0 - f_B$$

$$264.0 + 0.50 \text{ Hz} \quad 264.0 - 0.50 \text{ Hz}$$

$$\boxed{264.5 \text{ Hz}} \quad \boxed{263.5 \text{ Hz}}$$