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Straight lines l, m are in the three dimensional space.

$$\begin{cases} l; y = z = 0 \\ m; x = 0, z = 1 \end{cases}$$

Two points P and Q move in l and m respectively on the condition that $PQ = 2$. C is the surface produced by the segment PQ , as P and Q move. Find the volume of the solid space enclosed by C and planes $z = 0, z = 1$.

