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$$\begin{aligned} \text{div} F &= \frac{d}{dx} \left(\frac{1}{2} x^2 + e^{\cos z y} \right) + \frac{d}{dx} (y x + \ln |z|) + \frac{d}{dx} \tan(x y) \\ &= x + x + 0 = 2x \end{aligned}$$