

Solution

$$\begin{aligned} 2^{2007} \cdot 5^{2000} &= 2^7 \cdot 2^{2000} \cdot 5^{2000} \\ &= 2^7 \cdot 10^{2000} \\ &= 128 \cdot \underbrace{1\,000\dots000}_{2000 \text{ zéros}} \\ &= \underbrace{128\,000\dots000}_{2000 \text{ zéros}} \end{aligned}$$

On observe que ce nombre énorme a 2003 chiffres.