3

$$F = \text{Vect}\left((1,0,0,\ldots),(0,1,0,\ldots),\ldots,(0,\ldots,0,1,0,0,0,\ldots)\right)$$

Si $(u_n) \in F^\perp$ alors $\begin{cases} u & \perp(1,0,\ldots) \\ u & \perp(0,1,0,\ldots), \\ \vdots \end{cases} \begin{cases} u_0 & = 0 \\ u_1 & = 0 \\ \vdots \\ u_n & = 0 \\ \vdots \end{cases}$

voir corrigé lol