



The points p_i are defined as follows: $p_0 = (0, 0)$, $p_1 = (1, 0)$, $p_2 = (1, 1)$, $p_3 = (0, 1)$, $p_4 = (0, 0)$, $p_5 = (1, 0)$, $p_6 = (1, 1)$, $p_7 = (0, 1)$, $p_8 = (0, 0)$, $p_9 = (1, 0)$, $p_{10} = (1, 1)$. The points $p_2, p_3, p_4, p_5, p_6, p_7, p_8, p_9, p_{10}$ are highlighted in red.

The sequence $\{p_i\}$ is defined by the recurrence relation $p_{i+1} = p_i + v_i$, where v_i is a vector in \mathbb{R}^2 . The vectors v_i are defined as follows: $v_0 = (1, 0)$, $v_1 = (0, 1)$, $v_2 = (-1, 0)$, $v_3 = (0, -1)$, $v_4 = (1, 0)$, $v_5 = (0, 1)$, $v_6 = (-1, 0)$, $v_7 = (0, -1)$, $v_8 = (1, 0)$, $v_9 = (0, 1)$, $v_{10} = (-1, 0)$. The sequence $\{p_i\}$ is periodic with period 4.

$$p_i = \begin{cases} (0, 0) & \text{if } i \equiv 0 \pmod{4} \\ (1, 0) & \text{if } i \equiv 1 \pmod{4} \\ (1, 1) & \text{if } i \equiv 2 \pmod{4} \\ (0, 1) & \text{if } i \equiv 3 \pmod{4} \end{cases}$$

The sequence $\{p_i\}$ is periodic with period 4. The sequence $\{v_i\}$ is also periodic with period 4. The sequence $\{p_i\}$ is defined by the recurrence relation $p_{i+1} = p_i + v_i$. The sequence $\{v_i\}$ is defined by the recurrence relation $v_{i+1} = -v_i$.

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