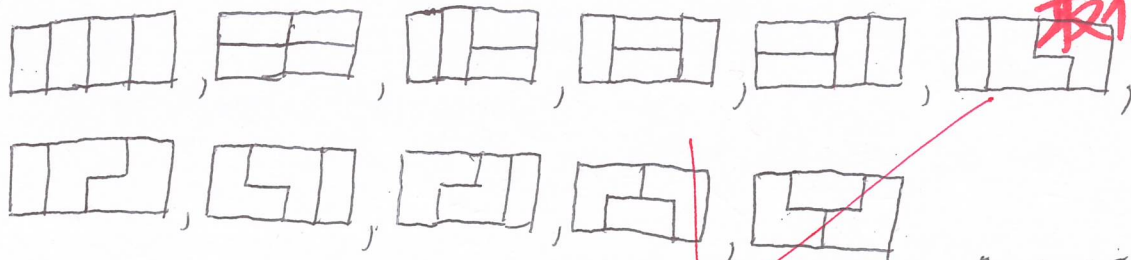




永春高中數學科 階城盃答案卷

班級 215 座號 5 姓名 第 74 期第 2 大題

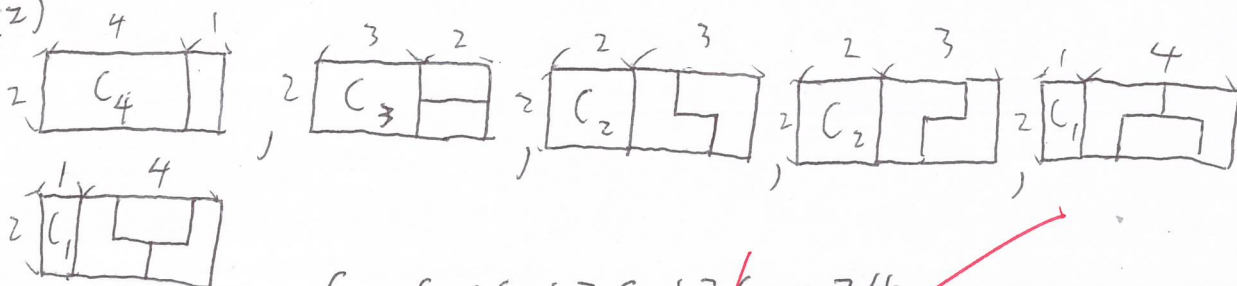
(1)



最佳解!

A=11種

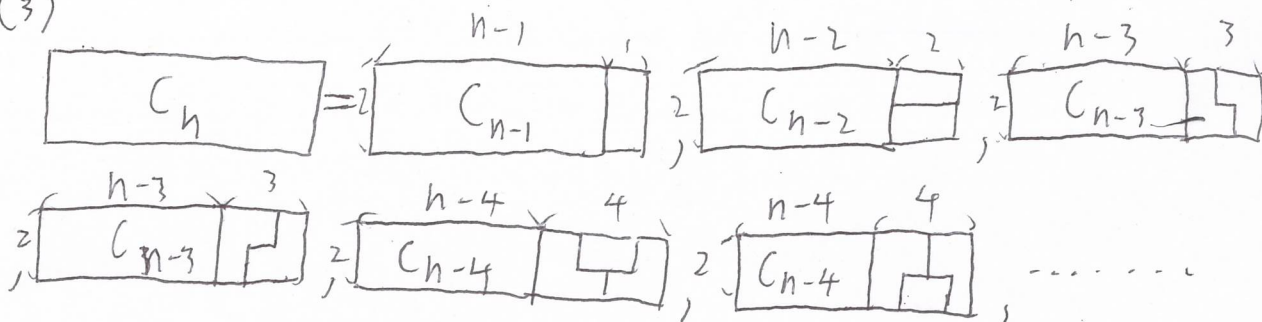
(2)



$$C_5 = C_4 + C_3 + 2C_2 + 2C_1 = 24$$

A=24種

(3)



$$C_n = C_{n-1} + C_{n-2} + 2(C_{n-3} + C_{n-4} + \dots + C_1) \quad C_9 = 2C_8 + C_6 = 569$$

$$C_{n-1} = C_{n-2} + C_{n-3} + 2(C_{n-4} + C_{n-5} + \dots + C_1) \quad C_{10} = 2C_9 + C_7 = 1255$$

$$C_n - C_{n-1} = C_{n-1} + C_{n-3} \quad C_6 = 2C_5 + C_3 = 53$$

$$C_n = 2C_{n-1} + C_{n-3} \quad C_7 = 2C_6 + C_4 = 117$$

$$C_8 = 2C_7 + C_5 = 258$$

$$A \begin{cases} (1) C_n = 2C_{n-1} + C_{n-3} \\ (2) C_{10} = 1255 \end{cases}$$