$$Cn = An + Bn + Jn = 2An + Jn$$

$$An = Bn$$

$$C_{m+n} = 2 dm + 2 \beta m + 3 dm = 2 cm + 2 c$$

Anihilator:
$$(E^2 - 2E - 1) = (E - (1 - \pi))(E - (1 + \pi))$$

$$C_{n} = A (1 - 12)^{n} + B (1 + 12)^{n}$$

$$C_{0} = 1 = A + B$$

$$C_{1} = 3 = A (1 - 12) + B (1 + 12)$$

$$C_{1} = 3 = A (1 - 12) + B (1 + 12)$$