HW3 流程局

Input

- 1. Stock Price
- 2. Strike Price
- 3. upward rate
- 4 downward rate
- 5 riskless rate
- 6 period

- 1. R = er
- $2. p = \frac{R d}{u d}$
- 3. 各期股價

Calculate

- 1. Cn = max (0, Sn-X)
- 2. Pn = max (0, X-5n)

Calculate

* Backward Induction

Cd = PCud + (1-p) Cdd

*資料儲存方式: List \Stock

任意(沒用到)

[(60, 160, 240, 80, 360, 120, 40, 540, 180, 60, 20...]

1 2 3 (4) 5 6 7 8

$$\Rightarrow \frac{(n+1)\times n}{z} + 1 = index (Ex: n+1=3) index=4)$$

Option

List [235, 17.5, 0]

当len(list)=1

list [141.458, 10,208]

为List裡的值

List [85.069]

即為 Option Value!

Output

- 1. Call Value
- 2. Put Value