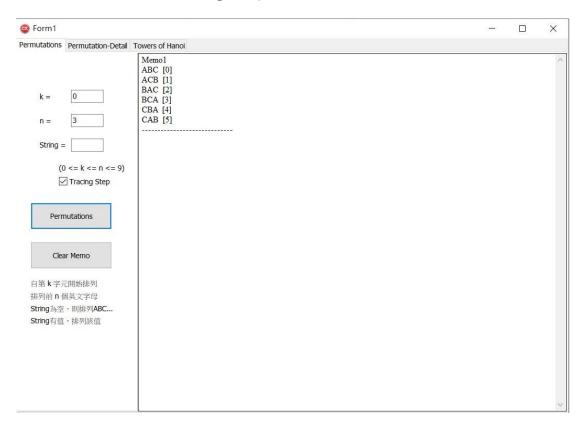
HW2 Permutations and Hanoi Towers

0616098 黃秉茂

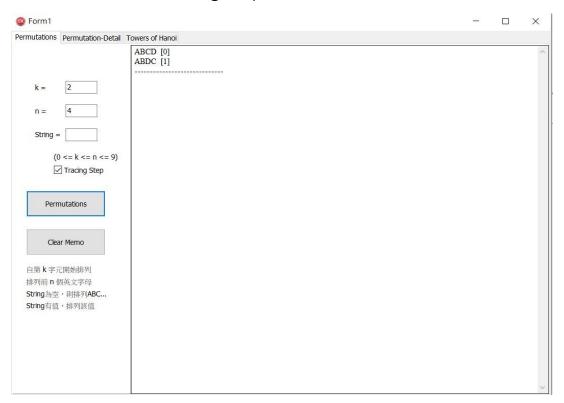
執行結果:

Permutation:

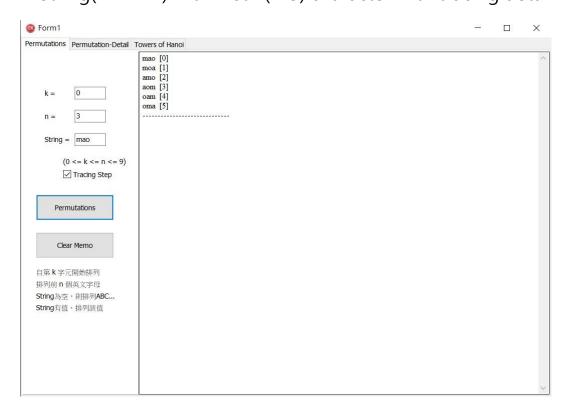
k = 0, n = 3, with tracing step



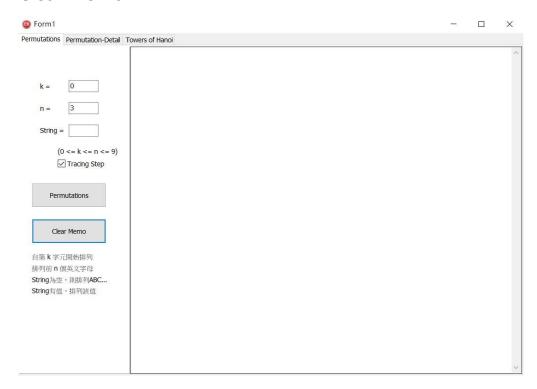
k = 2, n = 4, with tracing step

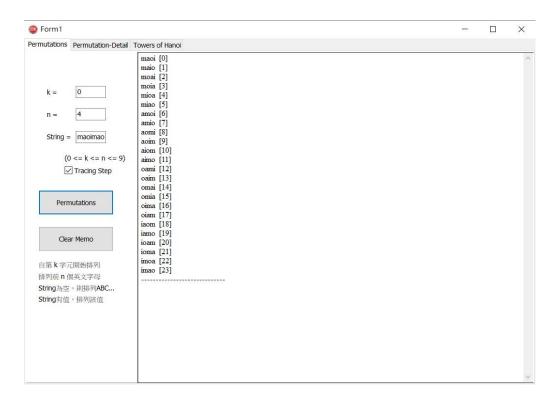


k = 0, n = 3, String = "mao" with tracing detail, permutation String(= winni) with first n(= 3) character with tracing detail

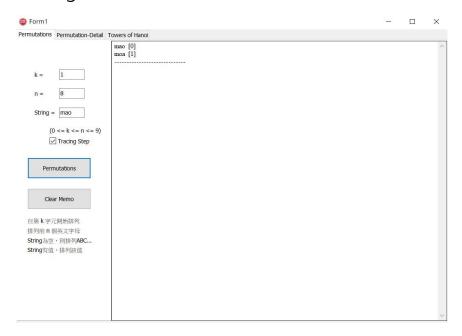


Clear memo

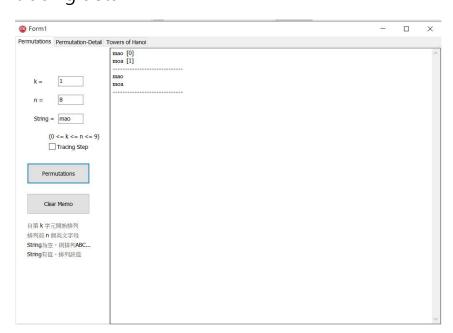




k = 1, n = 8, String = "mao" with tracing detail sincen > length of the String, permutation String(= mao) withtracing detail

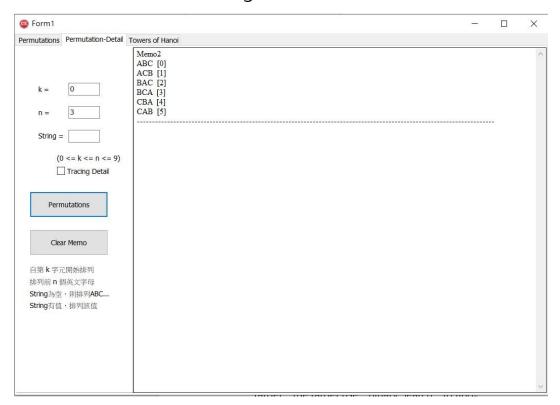


k = 1, n = 8, String = "mao" without tracing detail since n > length of the String, permutation String(= mao) without tracing detail

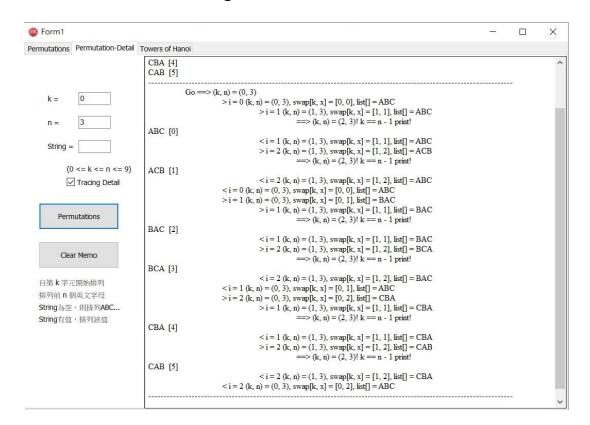


Permutation Detail:

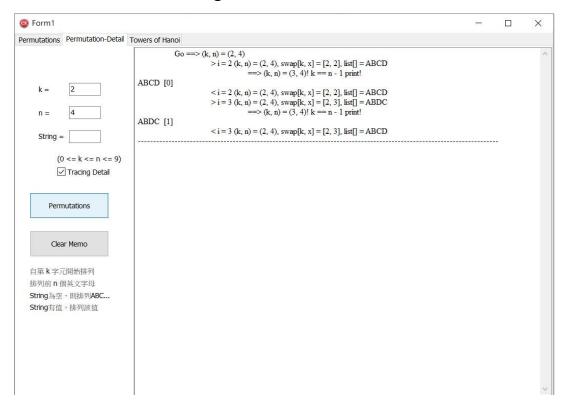
k = 0, n = 3, without tracing detail



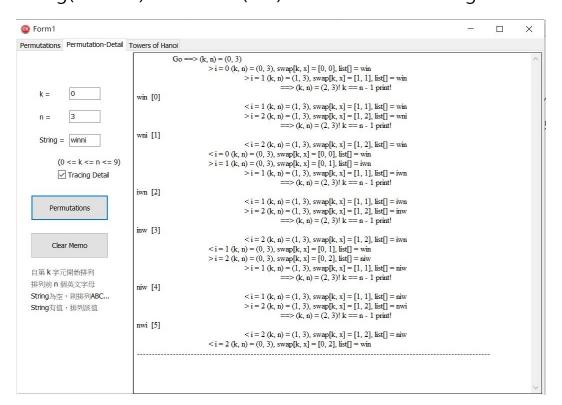
k = 0, n = 3, with tracing detail



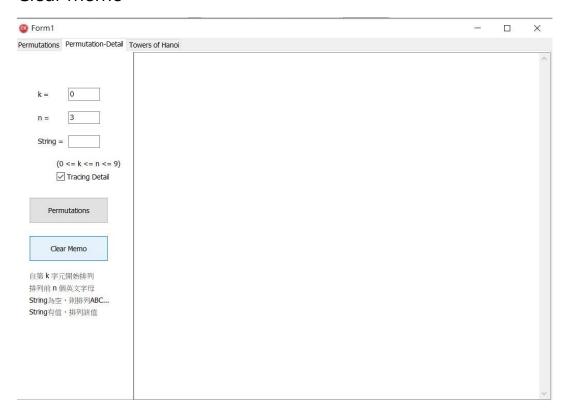
k = 2, n = 4, with tracing detail



k = 0, n = 3, String = "winni" with tracing detail, permutation String(= winni) with first n(= 3) character with tracing detail

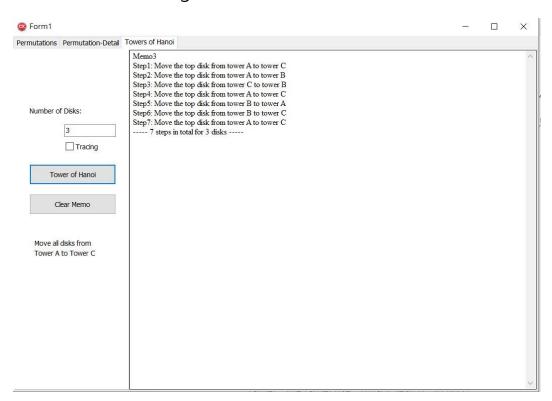


Clear memo

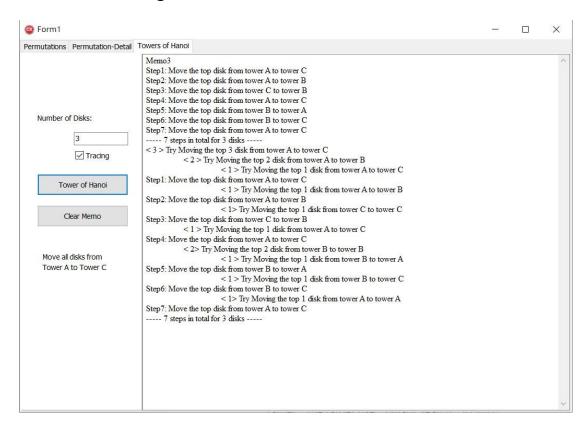


Towers of Hanoi:

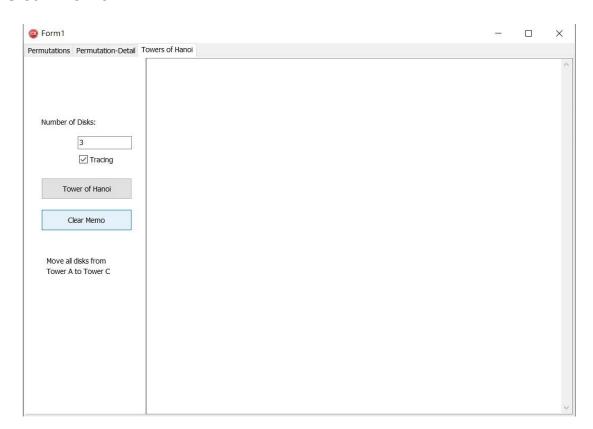
n=3, without tracing



n=3, with tracing



Clear memo



程式說明:

Permutation:

Edit:

k: 自第 k 字元開始排列

n:排列前 n 個英文字母

String: String 為空,則排列 ABC..., String 有值,排列

String 的該值

String 有值時,當 n = 0 or n > length of String,都是排

列整串該 String

Check-box:

Tracing Step:要不要把所有排列的順序印出來

Button:

Permutations: 排列

Clear Memo: 清除 memo

Permutation Detail:

Edit:

k: 自第 k 字元開始排列

n:排列前 n 個英文字母

String: String 為空,則排列 ABC..., String 有值,排列

String 的該值

String 有值時,當 n = 0 or n > length of String,都是排

列整串該 String

Check-box:

Tracing Detail:要不要把所有排列的交換步驟印出來

Button:

Permutations: 排列

Clear Memo: 清除 memo

Towers of Hanoi:

Edit:

Number of Disks:要疊幾片

Check-box:

Tracing:要不要印出更細節的部份

Button:

Tower of Hanoi: 執行 Towers of Hanoi

Clear Memo: 清除 memo

主要是利用 recursive 完成此次作業