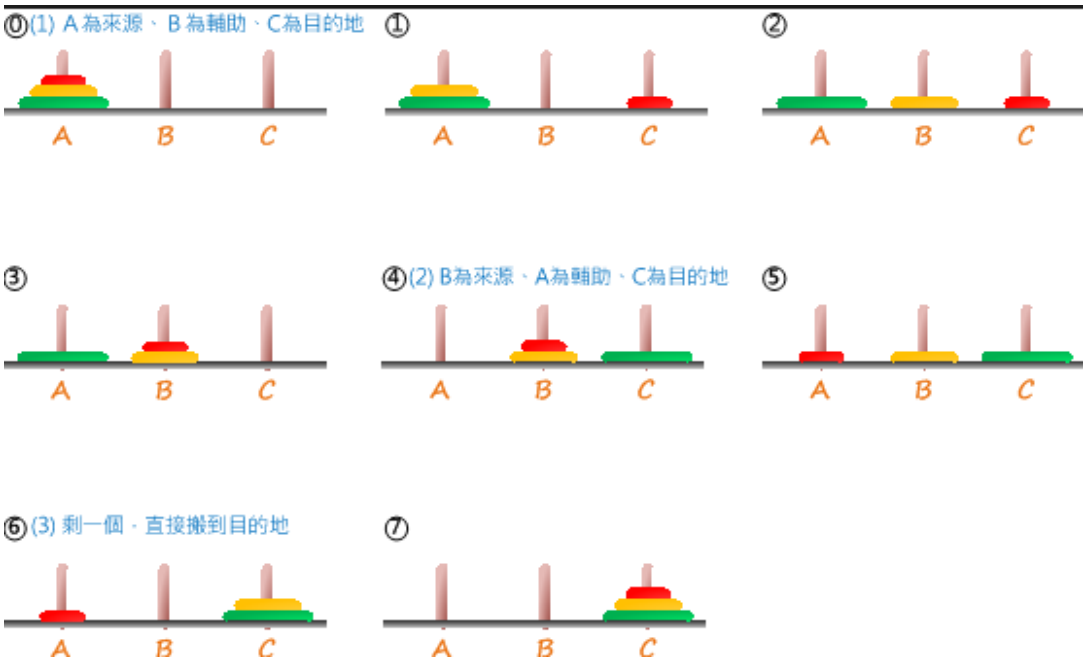
C++
Homework 04

1. Rotate a 2D matrix

   a. Prompt the user to input an integer K.
   b. Use new to allocate a K-by-K 2D matrix, and fill it up with random values. Then, output the matrix to file A.
   c. Write a function rotate to rotate the matrix inplace for 90 degree.
   d. Call the function three times, and write the matrix to file B.
   e. release all memory allocated.

3. A thief who knows algorithms
   a. Let the user input a set of numbers A={A1, A2, ..., An}
      a. A is of type vector<int>
   b. Then prompt the user for another bigger integer, K
   c. Use a recursive function to print out all the subset of A whose sum equals to K
      a. dfs(i,j, K) // i: index of A; j: K-current sum

2. Hanoi tower
   a. Ask for an input K
   b. print out the moves needed with function move(source, temp, destination).
   b. For example: K=3



A->C; A->B; C->B; A->C; B->A; B->C; A->C