

## Lab exercise on Dynamic Programming

Consider the recurrence relation

$$n_{C_k} = \begin{cases} 1 & \text{if } n = k \text{ or } k = 0 \\ (n-1)_{C_k} + (n-1)_{C_{(k-1)}} & \end{cases}.$$

Write a C program to evaluate  $n_{C_k}$  using divide-and-conquer technique and dynamic programming.