Dept. of Electrical Engineering
National Central University

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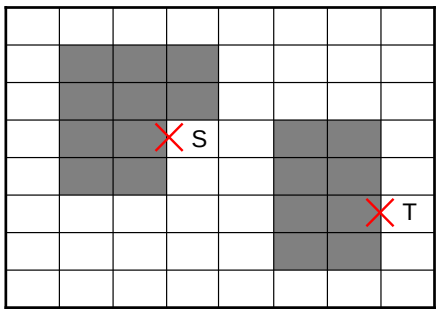
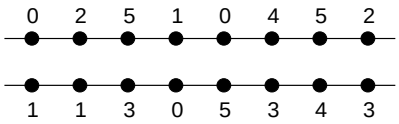
# **Introduction to Electronic Design Automation** (EE4026)

## Homework #3
## (Due: May 14)

1. Global routing:
   (a) In the graph shown right, please find a shortest route from S to T using Lee algorithm and redraw your result in the answer sheet. The grey blocks are the occupied regions that cannot be used for routing.
   (b) Please redo this problem using Hadlock's algorithm and compare the results with (a).




2. Given the instance of channel routing problem:




   (a) Draw the HCG and VCG.
   (b) Use the constrained left-edge algorithm to complete the channel routing. (no dogleg is allowed)
   (c) If restricted doglegging is allowed, please reroute the results in (b).

   (P.S: Please redraw each routing result on your answer sheet.)