

GRAPHER

INTRODUCTION

- The application has a board with 25*40 squares.
- In this application; user can draw, load, save a graph, and calculate R, R2, R3, ..., Rn, R* and Rmin matrices.
- R matrix gives directly connected nodes (1 step away).
 R2 matrix gives exactly 2 steps away points.
- Rn matrix gives exactly n steps away points. R* matrix gives all connected points.
- Rmin matrix gives the minimum number of steps required for going point a to point b.

WELL DESIGNED CONSOLE INTERFACE

R MATRIX **ABCDEFGHIJKLMNOP ABCDEFGHIJKLMNOP** 0010000100000000 1111111110000000 B 100000000000000000 1111111110000000 1111111110000000 0101001000000000 D 0000100010000000 0001110010000000 00001000000000000 00001000000000000 00010000000000000 0001110010000000 11111111110000000 0000000100000000 01000000000000000 1111111110000000 00011100100000000 00000100000000000 00000000000000000 00000000000000000 00000000000000000 00000000000000000 00000000000000000 00000000000000000 00000000000000000 00000000000000000 00000000000000000 00000000000000000 00000000000000000 00000000000000000 0000000000000000 00000000000000000 MENU QUERY FOR MIN STEPS From: E To: E '0' => Show R Min Matrix '1' => Show R and R * Matrix '2-9' => Show Rn Matrix



RECURSIVE MATRIX MULTIPLICATION



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'Q' => Query For Min Steps

'C' => Change The Graph

