

1035-N1-826

Joshua Brandon Holden* (holden@rose-hulman.edu), CM #125, Rose-Hulman Institute of Technology, 5500 Wabash Ave., Terre Haute, IN 47803. *Blackwork embroidery and algorithms for maze traversals.*

Blackwork embroidery is a needlework technique often associated with Elizabethan England. The patterns used in blackwork generally are traversed in a way that can be described by classical algorithms in graph theory, such as those used in “The Labyrinth Problem”. We investigate which of these maze-traversing algorithms can also be used to traverse blackwork patterns. (Received September 16, 2007)