

# MASTER OF SCIENCE IN APPLIED MATHEMATICS

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## CONSTRUCTING HIGHER-ORDER DE BRUIJN GRAPHS

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In this thesis, binary de Bruijn graphs of odd order using recursive generation, are constructed. The properties and nuances of these particular graphs are also explored. The recursive method developed for this thesis could in principle be used for other de Bruijn graphs of a different order. Suggestions on how this is accomplished are included in the paper and areas of further research topics.

**KEYWORDS:** Graph Drawing, Recursion, de Bruijn Graphs

