On any linux machine, the program can be compiled with

>>make

from the directory containing the code.

It can then by executed with:

>> ./main [max search steps] [#stacks] [#blocks]

Example trace:

>> ./main 10000 5 5

Goal blockState:

1 | 1 2 3 4 5

2 |

3 |

4 |

5 |

Start blockState:

H(goal): 7

1 | 5 1

2 | 4 3

3 | 2

4 |

5 |

Found goal

Step=24, Queue=281, f=7, g=7, h=0, depth=7

Path:

1 | 5 1

2 | 4 3

3 | 2

4 |

5 |

1 | 5

2 | 4 3 1

3 | 2

4 |

5 |

1 |

2 | 4 3 1

3 | 2

4 |

5 | 5

1 | 1

2 | 4 3

3 | 2

4 |

5 | 5

1 | 1 2

2 | 4 3

3 |

4 |

5 | 5

1 | 1 2 3

2 | 4

3 |

4 |

5 | 5

1 | 1 2 3 4

2 |

3 |

4 |

5 | 5

1 | 1 2 3 4 5

2 |

3 |

4 |

5 |