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| DFS | | | |
| Feature | Missionaries and cannibals | Farmer\_Fox | Towers of Hanoi |
| Path | M on left:3  C on left:3  M on right:0  C on right:0  boat is on the left.  M on left:2  C on left:2  M on right:1  C on right:1  boat is on the right.  M on left:3  C on left:2  M on right:0  C on right:1  boat is on the left.  M on left:0  C on left:2  M on right:3  C on right:1  boat is on the right.  M on left:2  C on left:2  M on right:1  C on right:1  boat is on the left.  M on left:1  C on left:1  M on right:2  C on right:2  boat is on the right.  M on left:3  C on left:1  M on right:0  C on right:2  boat is on the left.  M on left:0  C on left:1  M on right:3  C on right:2  boat is on the right.  M on left:1  C on left:1  M on right:2  C on right:2  boat is on the left.  M on left:0  C on left:0  M on right:3  C on right:3  boat is on the right. | Number of Foxes on left:1  Number of Chicken on left:1  Number of Grain on left:1  Number of Farmer on left:1  Number of Foxes on right:0  Number of Chicken on right:0  Number of Grain on right:0  Number of Farmer on right:0  boat is on the left.  Number of Foxes on left:1  Number of Chicken on left:0  Number of Grain on left:1  Number of Farmer on left:0  Number of Foxes on right:0  Number of Chicken on right:1  Number of Grain on right:0  Number of Farmer on right:1  boat is on the right.  Number of Foxes on left:1  Number of Chicken on left:0  Number of Grain on left:1  Number of Farmer on left:1  Number of Foxes on right:0  Number of Chicken on right:1  Number of Grain on right:0  Number of Farmer on right:0  boat is on the left.  Number of Foxes on left:0  Number of Chicken on left:0  Number of Grain on left:1  Number of Farmer on left:0  Number of Foxes on right:1  Number of Chicken on right:1  Number of Grain on right:0  Number of Farmer on right:1  boat is on the right.  Number of Foxes on left:0  Number of Chicken on left:1  Number of Grain on left:1  Number of Farmer on left:1  Number of Foxes on right:1  Number of Chicken on right:0  Number of Grain on right:0  Number of Farmer on right:0  boat is on the left.  Number of Foxes on left:0  Number of Chicken on left:1  Number of Grain on left:0  Number of Farmer on left:0  Number of Foxes on right:1  Number of Chicken on right:0  Number of Grain on right:1  Number of Farmer on right:1  boat is on the right.  Number of Foxes on left:0  Number of Chicken on left:1  Number of Grain on left:0  Number of Farmer on left:1  Number of Foxes on right:1  Number of Chicken on right:0  Number of Grain on right:1  Number of Farmer on right:0  boat is on the left.  Number of Foxes on left:0  Number of Chicken on left:0  Number of Grain on left:0  Number of Farmer on left:0  Number of Foxes on right:1  Number of Chicken on right:1  Number of Grain on right:1  Number of Farmer on right:1  boat is on the right. | [[4, 3, 2, 1] ,[] ,[]]  [[4, 3, 2] ,[1] ,[]]  [[4, 3] ,[1] ,[2]]  [[4, 3, 1] ,[] ,[2]]  [[4, 3] ,[] ,[2, 1]]  [[4] ,[3] ,[2, 1]]  [[4, 1] ,[3] ,[2]]  [[4] ,[3, 1] ,[2]]  [[4, 2] ,[3, 1] ,[]]  [[4, 2, 1] ,[3] ,[]]  [[4, 2] ,[3] ,[1]]  [[4] ,[3, 2] ,[1]]  [[4, 1] ,[3, 2] ,[]]  [[4] ,[3, 2, 1] ,[]]  [[] ,[3, 2, 1] ,[4]]  [[1] ,[3, 2] ,[4]]  [[] ,[3, 2] ,[4, 1]]  [[2] ,[3] ,[4, 1]]  [[2, 1] ,[3] ,[4]]  [[2] ,[3, 1] ,[4]]  [[] ,[3, 1] ,[4, 2]]  [[1] ,[3] ,[4, 2]]  [[] ,[3] ,[4, 2, 1]]  [[3] ,[] ,[4, 2, 1]]  [[3, 1] ,[] ,[4, 2]]  [[3] ,[1] ,[4, 2]]  [[3, 2] ,[1] ,[4]]  [[3, 2, 1] ,[] ,[4]]  [[3, 2] ,[] ,[4, 1]]  [[3] ,[2] ,[4, 1]]  [[3, 1] ,[2] ,[4]]  [[3] ,[2, 1] ,[4]]  [[] ,[2, 1] ,[4, 3]]  [[1] ,[2] ,[4, 3]]  [[] ,[2] ,[4, 3, 1]]  [[2] ,[] ,[4, 3, 1]]  [[2, 1] ,[] ,[4, 3]]  [[2] ,[1] ,[4, 3]]  [[] ,[1] ,[4, 3, 2]]  [[1] ,[] ,[4, 3, 2]]  [[] ,[] ,[4, 3, 2, 1]] |
| Length of path | 9 | 7 | 40 |
| Number of nodes expanded | 10 | 9 | 40 |

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| BFS | | | |
| Feature | Missionaries and cannibals | Farmer\_Fox | Towers of Hanoi |
| Path | M on left:3  C on left:3  M on right:0  C on right:0  boat is on the left.  M on left:2  C on left:2  M on right:1  C on right:1  boat is on the right.  M on left:3  C on left:2  M on right:0  C on right:1  boat is on the left.  M on left:1  C on left:1  M on right:2  C on right:2  boat is on the right.  M on left:3  C on left:1  M on right:0  C on right:2  boat is on the left.  M on left:0  C on left:1  M on right:3  C on right:2  boat is on the right.  M on left:1  C on left:1  M on right:2  C on right:2  boat is on the left.  M on left:0  C on left:0  M on right:3  C on right:3  boat is on the right. | Number of Foxes on left:1  Number of Chicken on left:1  Number of Grain on left:1  Number of Farmer on left:1  Number of Foxes on right:0  Number of Chicken on right:0  Number of Grain on right:0  Number of Farmer on right:0  boat is on the left.  Number of Foxes on left:1  Number of Chicken on left:0  Number of Grain on left:1  Number of Farmer on left:0  Number of Foxes on right:0  Number of Chicken on right:1  Number of Grain on right:0  Number of Farmer on right:1  boat is on the right.  Number of Foxes on left:1  Number of Chicken on left:0  Number of Grain on left:1  Number of Farmer on left:1  Number of Foxes on right:0  Number of Chicken on right:1  Number of Grain on right:0  Number of Farmer on right:0  boat is on the left.  Number of Foxes on left:0  Number of Chicken on left:0  Number of Grain on left:1  Number of Farmer on left:0  Number of Foxes on right:1  Number of Chicken on right:1  Number of Grain on right:0  Number of Farmer on right:1  boat is on the right.  Number of Foxes on left:0  Number of Chicken on left:1  Number of Grain on left:1  Number of Farmer on left:1  Number of Foxes on right:1  Number of Chicken on right:0  Number of Grain on right:0  Number of Farmer on right:0  boat is on the left.  Number of Foxes on left:0  Number of Chicken on left:1  Number of Grain on left:0  Number of Farmer on left:0  Number of Foxes on right:1  Number of Chicken on right:0  Number of Grain on right:1  Number of Farmer on right:1  boat is on the right.  Number of Foxes on left:0  Number of Chicken on left:1  Number of Grain on left:0  Number of Farmer on left:1  Number of Foxes on right:1  Number of Chicken on right:0  Number of Grain on right:1  Number of Farmer on right:0  boat is on the left.  Number of Foxes on left:0  Number of Chicken on left:0  Number of Grain on left:0  Number of Farmer on left:0  Number of Foxes on right:1  Number of Chicken on right:1  Number of Grain on right:1  Number of Farmer on right:1  boat is on the right. | [[4, 3, 2, 1] ,[] ,[]]  [[4, 3, 2] ,[1] ,[]]  [[4, 3] ,[1] ,[2]]  [[4, 3, 1] ,[] ,[2]]  [[4, 3] ,[] ,[2, 1]]  [[4] ,[3] ,[2, 1]]  [[4, 1] ,[3] ,[2]]  [[4, 1] ,[3, 2] ,[]]  [[4] ,[3, 2, 1] ,[]]  [[] ,[3, 2, 1] ,[4]]  [[1] ,[3, 2] ,[4]]  [[] ,[3, 2] ,[4, 1]]  [[2] ,[3] ,[4, 1]]  [[2, 1] ,[3] ,[4]]  [[2, 1] ,[] ,[4, 3]]  [[2] ,[1] ,[4, 3]]  [[] ,[1] ,[4, 3, 2]]  [[1] ,[] ,[4, 3, 2]]  [[] ,[] ,[4, 3, 2, 1]] |
| Length of path | 7 | 7 | 18 |
| Number of nodes expanded | 10 | 10 | 70 |