

	TowersOfHanoi (DFS)	TowersOfHanoi (BFS)
the path found from start to goal	[[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]]	[[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]]
the length of the path	40	18
the number of nodes expanded	40	70

	Missionaries and Cannibals(DFS)	Missionaries and Cannibals(BFS)
the path found from start to goal	<p>M on left:3 C on left:3 M on right:0 C on right:0 boat is on the left.</p> <p>M on left:2 C on left:2 M on right:1 C on right:1 boat is on the right.</p> <p>M on left:3 C on left:2 M on right:0 C on right:1 boat is on the left.</p> <p>M on left:0 C on left:2 M on right:3 C on right:1 boat is on the right.</p> <p>M on left:2 C on left:2 M on right:1 C on right:1 boat is on the left.</p> <p>M on left:1 C on left:1 M on right:2 C on right:2 boat is on the right.</p> <p>M on left:3 C on left:1 M on right:0</p>	<p>M on left:3 C on left:3 M on right:0 C on right:0 boat is on the left.</p> <p>M on left:2 C on left:2 M on right:1 C on right:1 boat is on the right.</p> <p>M on left:3 C on left:2 M on right:0 C on right:1 boat is on the left.</p> <p>M on left:1 C on left:1 M on right:2 C on right:2 boat is on the right.</p> <p>M on left:3 C on left:1 M on right:0 C on right:2 boat is on the left.</p> <p>M on left:0 C on left:1 M on right:3 C on right:2 boat is on the right.</p> <p>M on left:1 C on left:1 M on right:2</p>

	<p>C on right:2 boat is on the left.</p> <p>M on left:0 C on left:1 M on right:3 C on right:2 boat is on the right.</p> <p>M on left:1 C on left:1 M on right:2 C on right:2 boat is on the left.</p> <p>M on left:0 C on left:0 M on right:3 C on right:3 boat is on the right.</p>	<p>C on right:2 boat is on the left.</p> <p>M on left:0 C on left:0 M on right:3 C on right:3 boat is on the right.</p>
the length of the path	9	7
the number of nodes expanded	10	10

	Farmer fox (DFS)	Farmer fox (BFS)
the path found from start to goal	<p>Farmer on left:1 Fox on left:1 Chicken on left:1 Grain on left:1 Farmer on right:0 Fox on right:0 Chicken on right:0 Grain on right:0 boat is on the left.</p> <p>Farmer on left:0 Fox on left:1 Chicken on left:0 Grain on left:1 Farmer on right:1 Fox on right:0 Chicken on right:1 Grain on right:0 boat is on the right.</p> <p>Farmer on left:1 Fox on left:1 Chicken on left:0 Grain on left:1 Farmer on right:0 Fox on right:0 Chicken on right:1 Grain on right:0 boat is on the left.</p> <p>Farmer on left:0 Fox on left:0 Chicken on left:0 Grain on left:1 Farmer on right:1 Fox on right:1 Chicken on right:1 Grain on right:0 boat is on the right.</p> <p>Farmer on left:1 Fox on left:0</p>	<p>Farmer on left:1 Fox on left:1 Chicken on left:1 Grain on left:1 Farmer on right:0 Fox on right:0 Chicken on right:0 Grain on right:0 boat is on the left.</p> <p>Farmer on left:0 Fox on left:1 Chicken on left:0 Grain on left:1 Farmer on right:1 Fox on right:0 Chicken on right:1 Grain on right:0 boat is on the right.</p> <p>Farmer on left:1 Fox on left:1 Chicken on left:0 Grain on left:1 Farmer on right:0 Fox on right:0 Chicken on right:1 Grain on right:0 boat is on the left.</p> <p>Farmer on left:0 Fox on left:1 Chicken on left:0 Grain on left:0 Farmer on right:1 Fox on right:0 Chicken on right:1 Grain on right:1 boat is on the right.</p> <p>Farmer on left:1 Fox on left:1</p>

	Chicken on left:0 Grain on left:1 Farmer on right:0 Fox on right:1 Chicken on right:1 Grain on right:0 boat is on the left. Farmer on left:0 Fox on left:0 Chicken on left:0 Grain on left:0 Farmer on right:1 Fox on right:1 Chicken on right:1 Grain on right:1 boat is on the right.	Chicken on left:0 Grain on left:0 Farmer on right:0 Fox on right:0 Chicken on right:1 Grain on right:1 boat is on the left. Farmer on left:0 Fox on left:0 Chicken on left:0 Grain on left:0 Farmer on right:1 Fox on right:1 Chicken on right:1 Grain on right:1 boat is on the right.
the length of the path	5	5
the number of nodes expanded	6	10