Started on	Tuesday, 29 April 2025, 9:56 PM
State	Finished
Completed on	Tuesday, 29 April 2025, 10:04 PM
Time taken	7 mins 56 secs
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 2.50 out of 2.50

Write a python program to implement knight tour problem using warnsdorff's algorithm

For example:

Test	Input	Result
`a.warnsdroff((x,y))`	8 8 3 3	board: [21, 32, 17, 30, 39, 36, 15, 42] [18, 29, 20, 35, 16, 41, 54, 37] [33, 22, 31, 40, 53, 38, 43, 14] [28, 19, 34, 1, 44, 49, 60, 55] [23, 2, 27, 52, 61, 56, 13, 50] [8, 5, 24, 45, 48, 51, 62, 59] [3, 26, 7, 10, 57, 64, 47, 12] [6, 9, 4, 25, 46, 11, 58, 63]

Answer: (penalty regime: 0 %)

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	Test	Input	Expected	Got	
✔	`a.warnsdroff((x,y))`	8 8 3 3	board: [21, 32, 17, 30, 39, 36, 15, 42] [18, 29, 20, 35, 16, 41, 54, 37] [33, 22, 31, 40, 53, 38, 43, 14] [28, 19, 34, 1, 44, 49, 60, 55] [23, 2, 27, 52, 61, 56, 13, 50] [8, 5, 24, 45, 48, 51, 62, 59] [3, 26, 7, 10, 57, 64, 47, 12] [6, 9, 4, 25, 46, 11, 58, 63]	board: [21, 32, 17, 30, 39, 36, 15, 42] [18, 29, 20, 35, 16, 41, 54, 37] [33, 22, 31, 40, 53, 38, 43, 14] [28, 19, 34, 1, 44, 49, 60, 55] [23, 2, 27, 52, 61, 56, 13, 50] [8, 5, 24, 45, 48, 51, 62, 59] [3, 26, 7, 10, 57, 64, 47, 12] [6, 9, 4, 25, 46, 11, 58, 63]	✔

Passed all tests! ✔

Reset

Marks for this submission: 2.50/2.50.

Question **2**

Correct

Mark 2.50 out of 2.50

Write a python program to implement knight tour problem

For example:

Input	Result
5 5	[1, 12, 25, 18, 3] [22, 17, 2, 13, 24] [11, 8, 23, 4, 19] [16, 21, 6, 9, 14] [7, 10, 15, 20, 5] [(0, 0), (1, 2), (0, 4), (2, 3), (4, 4), (3, 2), (4, 0), (2, 1), (3, 3), (4, 1), (2, 0), (0, 1), (1, 3), (3, 4), (4, 2), (3, 0), (1, 1), (0, 3), (2, 4), (4, 3), (3, 1), (1, 0), (2, 2), (1, 4), (0, 2)] Done!

Answer: (penalty regime: 0 %)

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	Input	Expected	Got	
✔	5 5	[1, 12, 25, 18, 3] [22, 17, 2, 13, 24] [11, 8, 23, 4, 19] [16, 21, 6, 9, 14] [7, 10, 15, 20, 5] [(0, 0), (1, 2), (0, 4), (2, 3), (4, 4), (3, 2), (4, 0), (2, 1), (3, 3), (4, 1), (2, 0), (0, 1), (1, 3), (3, 4), (4, 2), (3, 0), (1, 1), (0, 3), (2, 4), (4, 3), (3, 1), (1, 0), (2, 2), (1, 4), (0, 2)] Done!	[1, 12, 25, 18, 3] [22, 17, 2, 13, 24] [11, 8, 23, 4, 19] [16, 21, 6, 9, 14] [7, 10, 15, 20, 5] [(0, 0), (1, 2), (0, 4), (2, 3), (4, 4), (3, 2), (4, 0), (2, 1), (3, 3), (4, 1), (2, 0), (0, 1), (1, 3), (3, 4), (4, 2), (3, 0), (1, 1), (0, 3), (2, 4), (4, 3), (3, 1), (1, 0), (2, 2), (1, 4), (0, 2)] Done!	✔

	Input	Expected	Got	
✔	6 6	[1, 32, 9, 18, 3, 34] [10, 19, 2, 33, 26, 17] [31, 8, 25, 16, 35, 4] [20, 11, 36, 27, 24, 15] [7, 30, 13, 22, 5, 28] [12, 21, 6, 29, 14, 23] [(0, 0), (1, 2), (0, 4), (2, 5), (4, 4), (5, 2), (4, 0), (2, 1), (0, 2), (1, 0), (3, 1), (5, 0), (4, 2), (5, 4), (3, 5), (2, 3), (1, 5), (0, 3), (1, 1), (3, 0), (5, 1), (4, 3), (5, 5), (3, 4), (2, 2), (1, 4), (3, 3), (4, 5), (5, 3), (4, 1), (2, 0), (0, 1), (1, 3), (0, 5), (2, 4), (3, 2)] Done!	[1, 32, 9, 18, 3, 34] [10, 19, 2, 33, 26, 17] [31, 8, 25, 16, 35, 4] [20, 11, 36, 27, 24, 15] [7, 30, 13, 22, 5, 28] [12, 21, 6, 29, 14, 23] [(0, 0), (1, 2), (0, 4), (2, 5), (4, 4), (5, 2), (4, 0), (2, 1), (0, 2), (1, 0), (3, 1), (5, 0), (4, 2), (5, 4), (3, 5), (2, 3), (1, 5), (0, 3), (1, 1), (3, 0), (5, 1), (4, 3), (5, 5), (3, 4), (2, 2), (1, 4), (3, 3), (4, 5), (5, 3), (4, 1), (2, 0), (0, 1), (1, 3), (0, 5), (2, 4), (3, 2)] Done!	✔

Passed all tests! ✔

Correct

Marks for this submission: 2.50/2.50.

Question **3**

Correct

Mark 2.50 out of 2.50

Write a python program to find minimum steps to reach to specific cell in minimum moves by knight.

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
✔	30	20	20	✔

Passed all tests! ✔

Correct

Marks for this submission: 2.50/2.50.

Question **4**

Correct

Mark 2.50 out of 2.50

Write a python program to implement knight tour problem using backtracking

For example:

Input	Result
5	Found a solution 01 20 11 14 03 10 15 02 19 12 21 24 13 04 07 16 09 06 23 18 25 22 17 08 05

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
✔	5	Found a solution 01 20 11 14 03 10 15 02 19 12 21 24 13 04 07 16 09 06 23 18 25 22 17 08 05	Found a solution 01 20 11 14 03 10 15 02 19 12 21 24 13 04 07 16 09 06 23 18 25 22 17 08 05	✔

Passed all tests! ✔

Marks for this submission: 2.50/2.50.