

**ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỒ CHÍ MINH**  
**TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIÊN**  
**KHOA CÔNG NGHỆ THÔNG TIN**

**Course: CSC14003 – Introduction to Artificial  
Intelligence**

**Class 20CLC– Term II/2021-2022**



**Lab01: The Knight's Tour**

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Môn học: Cơ sở AI

## Contents

<b>I. Checklist .....</b>	<b>3</b>
<b>II. Report sufficient information .....</b>	<b>3</b>
<b>III References .....</b>	<b>5</b>

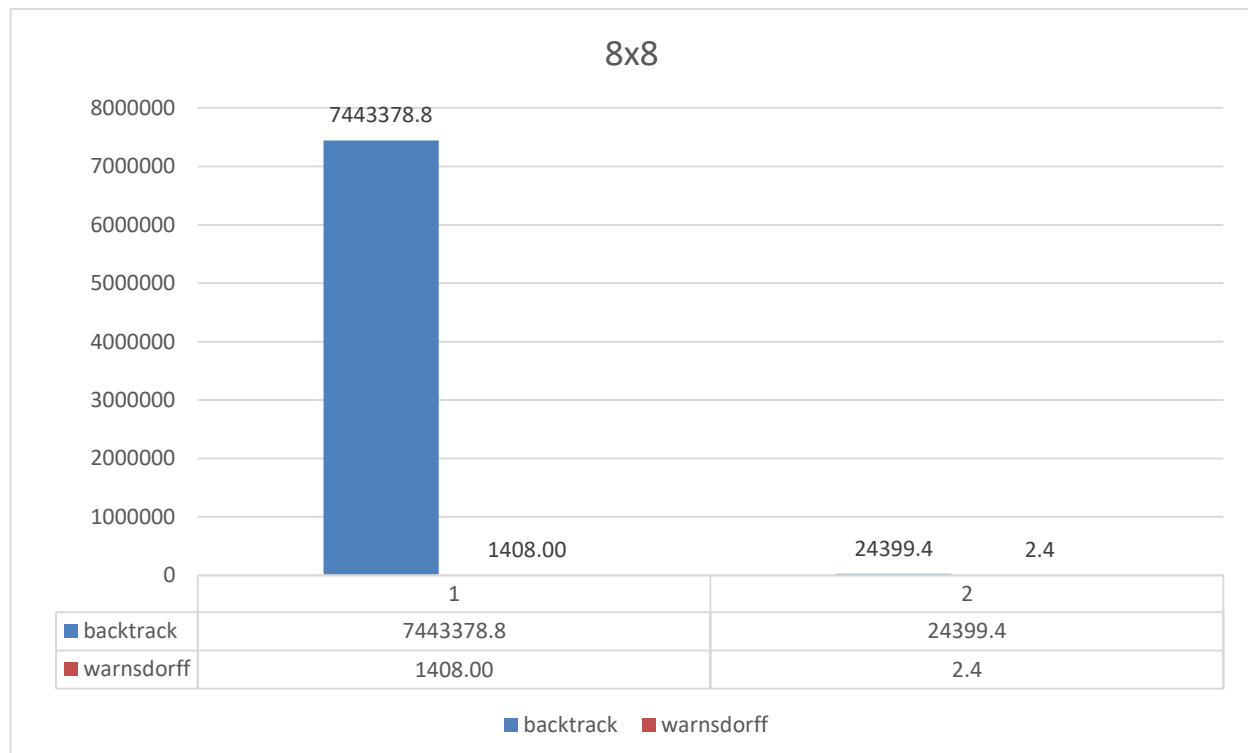
## I. Checklist

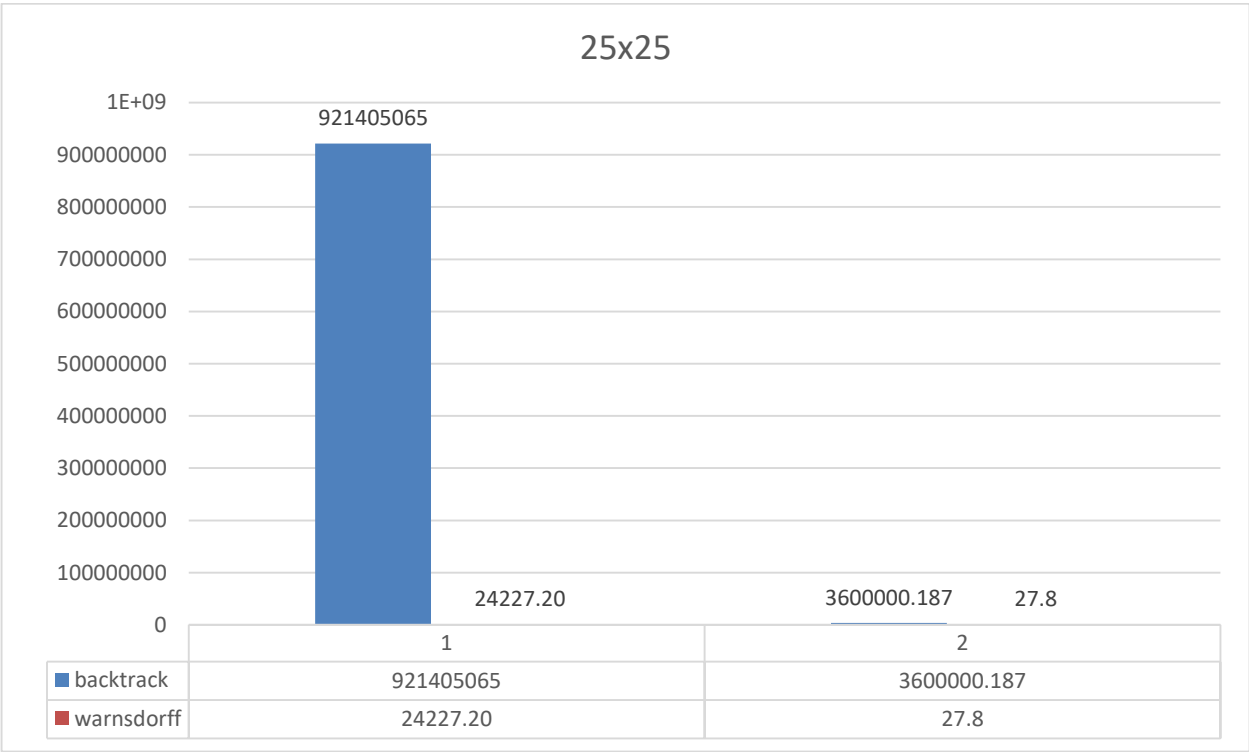
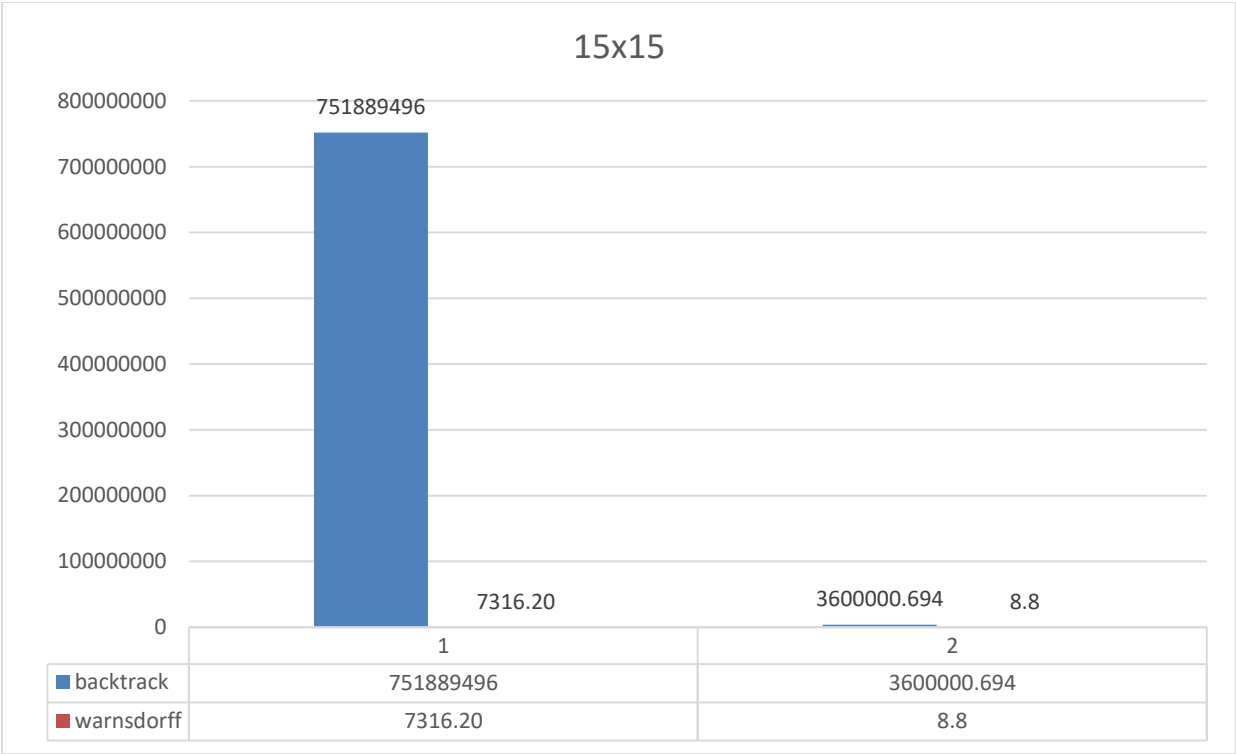
#	Criteria	% credits	% Finish percent
1	Manipulate the input and output	10	100
2	Implement the backtracking	10	100
3	Implement the Warnsdorff's Heuristic	10	100
4	Provide valid results for the backtracking strategy	20	80
5	Provide valid results for the Warnsdorff's Heuristic	20	80
6	Provide all evidential files in the OUTPUT folder	10	100
7	Report sufficient information in the document (This will be ignored if your work does not meet Criteria 6)	20	100

**\* Some positions of board in warnsdorff can't run normally and run out of list index instead of writing board and number of steps it has run. Same as backtrack algorithm. Except these positions that I mentioned, the program worked correctly.**

## II. Report sufficient information

**\*1: number of steps, 2: Run-time**





### **III References**

<https://www.geeksforgeeks.org/warnsdorffs-algorithm-knights-tour-problem>

[https://vi.wikipedia.org/wiki/B%C3%A0i\\_to%C3%A1n\\_m%C3%A3\\_%C4%91i\\_tu%E1%BA%A7n](https://vi.wikipedia.org/wiki/B%C3%A0i_to%C3%A1n_m%C3%A3_%C4%91i_tu%E1%BA%A7n)