ASSESSOR'S NAME:

STUDENT'S DETAILS

First name: Last name: Email address: Lab Group: Date of assessment:

程序代写代做 CS编程辅导

as	ssessment:			NOTE FOR EACH COLUMN BELOW:
	SUB-SECTION		MAX. SCORE	I) FULL OR MAXIMUM SCORE IS GIVEN IF THE CRITERIA IS MET. II) PARTIAL SCORE IS GIVEN IF THE CRITERIA IS NOT FULLY MET. III) ZERO SCORE IS GIVEN IF THE CRITERIA IS NOT MET. IV) PENALTIES WILL BE APPLIED AGAINST THE TOTAL MARKS OBTAINED ACROSS THE ASSIGNMENT.
Part A: PROGRAMMING TASK		Tutor CS.		
1.0 -Simulating the EV charging node	a	A sil Ing node. For instance, in a 3 × 3 cart cosses. Each node will have a (x, y) (x, y), Node 2 - (0,2), Node 8 (2, 2)). Simi x n nodes and threshold settings. At startop, the program andwarm user to specify the grid size (m x n) and threshold values.	2	
	b	Each EV charging node has k number of in use or free charging ports simulated with POSIX threads (you may opt to use OpenMP as an alternative to POSIX thread). Each thread periodically updates its value, indicating its availability.	0.5	
	С	The interpretation in (1) is stoled in a shared array, which charalso be accessed by all thre distribution the same to le	0.5	
	d	If all ports (or almost all ports) are in full use, the node will prompt for neighbour node data. To reiterate, the neighbour nodes refer to immediate top, bottom, right and left adjacent nodes (if exist).	1.5	
	e	If the received data from the neighbours shows a vacancy on the respective neighbour nodes, the reporting node shall indicate the nearest available neighbour nodes (if the received half a so so of far all of the reporting node with a large the bases at on the the node and it quadrant are all being used up.	ect]	Exam Help
	f	The report sent to the base station should contain as much information as possible about the alert. You should demonstrate efficiency when reporting an alert nessage to the base station. In this context, you should minimise the number of call to the Vil S nd (or Isen I) untitions of a ode of the late station when reporting amalert condition.	63.	com
	g	The node should receive a message from the base station about the nearest available EV charging nodes apart from its neighbour nodes.	1	
	h	Each node repeats parts (a) to (g) until upon receiving a termination message from the this stat on. Once the node leadings a termination message, the node clear up intexit. Note: Exernal the interruption (e.g., CTRL + C, or sending a 'kill -9 < pid> command by user) is not allowed.	1	
2.0 - Simulating the base station	а	A single MPI process simulates the base station node	0.5	
	b	The tase station node periodically/listens for incoming reports from the EV charging modes	0.5	
	c	Upol receiving a color rom/ar/EV has also be the black for the nearest neighbour nodes that are available based on the neighbouring nodes of the reporting node. For instance, if the reporting node is Node 0, the neighbour nodes are Node 1 and 3. The base station will check whether there're any reports received from Node 1 and 3 (i.e., Node 2, 4 and 6): - If no report is received from the nodes within a predefined period, the base station will suggest the available nodes to the reporting node. - If there are reports received from all of the nodes within a predefined period, the base station will send a message notifying the reporting node that there are no available nodes nearby.	2	
	d	The base station writes (or logs) the key performance metrics to an output file.	1	
	e	The base station has an option to send a termination message to the EV charging nodes to properly shutdown for maintenance. Note: External user interruption (e.g., CTRL + C) are not allowed and should not be needed.	1	
	f	The base station uses a thread (i.e., POSIX or OPENMP) to send or receive MPI messages from the EV charging nodes. This thread is created by the base station and terminates properly at the end of the program.	2	
Part B: REPORT				
Methodology	a	Thorough illustrations of network architecture along with a clear description of these illustrations. Compelling arguments are presented to justify the selected architecture with proper citations (in acceptable academic format, e.g., IEEE) to published papers in literature.	1.5	Note: Do not copy and paste the sample Figure in the assignment specifications into the report. You should draw your own diagram. No marks will be given for copying diagrams from the specification.
	b	Thorough diagrams/flow-charts/pseudo-code capturing the EV network algorithm in details, including the algorithms on all the charging stations and the base station free of errors. Proper explanations are required to explain the diagrams/flow-charts/pseudo-cdoes in the report.	1.5	Note: Proper technical diagrams and/or C style pseudo code formats must be applied here to be eligible for marks. Mathematical style pseudocode is also acceptable. No marks will be given for any unclear/unreadable pseudocode formats.
Results tabulation	a	Tabulated results which indicates details of the applied simulation scenario. The results must include number of attempted runs, number of reported messages, and a summary of events generated. Includes screenshots of message logs. Additional charts are included to illustrate the number of triggered events over a period of time.	1	Note: Minimum 2 runs with different scenarios are expected.
	b	Includes results when running the program on a local computer	0.5	
	С	Includes results when running the program using a larger grid size on a cluster computing setup (i.e., CAAS)	0.5	

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Analysis and discussion Property Proper		assessment:			
Assignment Project Cold demonstration Descripting the algorithm drags, implementation, results and analysis. Descripting the parallel algorithm (colds) Descripting the algorithm (colds) Descripting the algorithm (colds) Descripting the cold and parallel algorithm (colds) Descripting the algorithm (colds) Descripting the algorithm (colds) Descripting the cold and parallel algorithm (colds) Descripting the algorithm (colds) Descripting the algorithm (colds) Descripting the cold and parallel algorithm (colds) Descripting the cold and parall	SECTION	SUB-SECTION		MAX. SCORE	I) FULL OR MAXIMUM SCORE IS GIVEN IF THE CRITERIA IS MET. II) PARTIAL SCORE IS GIVEN IF THE CRITERIA IS NOT FULLY MET. III) ZERO SCORE IS GIVEN IF THE CRITERIA IS NOT MET. IV) PENALTIES WILL BE APPLIED AGAINST THE TOTAL
PRACTION TREVIEW + PREATURES We Chat: Cstutores Assignment Project Email: tutores@163 QQ: 749389476 QQ: 749389476 Code demonstration a Describing the algorithm design, implementation, results and analysis. https://tutores.com about the solid prepared and content shows any indicated on the code and constraints of the parallel solid through the solid prepared and understands code. The student has clearly reprepared and understands code. The student has clearly reprepared and understands code. The student can answer questions correctly consider the solid through the student has clearly reprepared and understands code. The student can an analysis of the rank of the student has clearly reprepared and understands code. The student has clearly represent and the student has clearly reprepared and understands code. The student has clearly represent and the student has clearly represented and the student has clearly student the code and clearly students and the students of the part of the part of the s		a	obsi com lired on the communication time bets mes lired to include all possible causes	2	
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Assignment Project Email: tutores@163 QQ: 749389476 Code demonstration as Describing the algorithm design, implementation, results and analysis. Describing the algorithm design, implementation, results and analysis. Describing the algorithm design, implementation, results and analysis. Code demonstration a Describing the algorithm design, implementation, results and analysis. Describing the algorithm design, implementation results and analysis. Describing the algorithm design, implementation results and analysis. Describing the algorithm design, implementation results and analysis. Describing the algorithm described analysis of the analysis and results and analysis. Describing the algorithm described analysis of the analysis and analysis. Describing the analysis and analysis and analysis and a			WeChat: cstutore	S	
The student has not prepared and cannot answer most/all basic questions, or the student's shows any most/all basic questions, or the student's shows any indication of not even seeing/recognizing the code before. Describing the algorithm design, implementation, results and analysis. Deduct 0.5 marks: Some form of proper code structure and code is properly indented, basic comments included. Deduct 1 mark: Poorly structured code, no proper code indentation and little or no comments.			Assignment Projection Email: tutorcs@1	ect]	The student has clearly prepared and understands the code. The student can answer questions correctly and concisely with little to no prompting. Deduct up to 10% of Part A: The student is reasonably cell repared and can consist entry reviet answers that are nostly correct the student may lack confidence of speed in answering Deduct up to 25% of Part A: The student may have prepared the code and can give answers that are partially correct but he/she clearly entry that are partially correct but he/she clearly entry that are partially prepared the code before and can give some very basic answers. However, the student clearly can't engage in a serious discussion of the code and demonstrates a poor understanding of the parallel algorithm/code.
The property indented, basic comments included. Deduct 1 mark: Poorly structured code, no proper code indentation and little or no comments. Included. Deduct 0.5 mark: No MAKEFILE is used.		a	Describing the algorithm design, implementation, results and analysis.		The student has not prepared and cannot answer most/all basic questions, or the student shows any indication of not even seeing/recognizing the code before.
b MAKEFILE usage Deduct 0.5 mark: No MAKEFILE is used.			A		structure and code is properly indented, basic comments included. Deduct 1 mark: Poorly structured code, no proper
compilation c Job script usage for CAAS Deduct 1 mark: No job script Deduct 0.5 mark: Few spelling and grammar errors correct punctuation; complete sentences. Deduct 1 to 2 marks: Noticeable spelling and grammar errors; most sentences have punctuation and are complete; uses upper- and lowercase. Rep not properly formatted. Deduct 2 to 3 marks: Many spelling, grammar, and punctuation; complete sentences; correct use of capitalization. Proper formatting of the report. Correct spelling, grammar, and punctuation; complete sentences; correct use of capitalization. Proper formatting of the report. Deduct 2 to 3 marks: Many spelling, grammar, and punctuation errors; sentence fragments; incorrect of capitalization. Proper formatting of the report. Deduct 0.5 mark: Between 10 were ported of capitalization. Proper formatting of the report. Deduct 2 to 3 marks: Many spelling, grammar, and punctuation; complete sentences; correct use of capitalization. Proper formatting of the report. Deduct 0.5 mark: Between 10 were ported of capitalization. Proper formatting of the report. Deduct 1.5 marks: Between 25% and 40% in content similarity is identified with another student's report or an external source. Deduct 1 marks: Between 40% and 55% in content similarity is identified with another student's report or an external source. Deduct 1 marks: Between 55% and 70% in content similarity is identified with another student's report or an external source. Deduct 2 marks: Properly or an external source (Marmy be withheld pending further investigation). Report - Reference Between 25% in content similarity is identified with another student's report or an external source. Deduct 1 marks: Properly formatted in an appropriate citation format (IEEE or APA). The references were cited in the references are not properly formatted in an appropriate citation format (IEEE or APA). Reference not properly cited in the report. Deduct 1					
Report - Grammar & Correct spelling, grammar, and punctuation; complete sentences; correct use of capitalization. Proper formatting of the report. Correct spelling, grammar, and punctuation; complete sentences; correct use of capitalization. Proper formatting of the report. Correct spelling, grammar, and punctuation; complete sentences; correct use of capitalization. Proper formatting of the report. Deduct 1 to 2 marks: Noticeable spelling and grammar errors; most sentences have punctuation and are complete; uses upper-and lowercase. Rep not properly formatted. Deduct 0.5 marks: Between 25% and 40% in content similarity is identified with another student's report or an external source. Deduct 1.5 marks: Between 40% and 55% in content similarity is identified with another student's report or an external source. Deduct 1.5 marks: Between 40% and 55% in content similarity is identified with another student's report or an external source. Deduct 1.5 marks: Between 55% and 70% in content similarity is identified with another student's report or an external source. Deduct 2.5 marks: Between 55% and 70% in content similarity is identified with another student's report or an external source. Deduct 2.5 marks: Popt or an external source. Deduct 2.5 marks: Popt or an external source (Ma may be withheld pending further investigation). Reference section is present and references are properly formatted in an appropriate citation format (IEEE or APA). The references were cited in the report. Deduct 0.5 marks: Reference section is present but references are not properly formatted in an appropriate citation format (IEEE or APA). The references were cited in the report. Deduct 1 mark: No reference section Deduct marks: No reference section Deduct ma		С	Job script usage for CAAS	0	
Deduct 1.5 marks: Between 55% and 70% in conters similarity is identified with another student's report or an external source. Report - High similarity with other reports (using Turnitin) Reference section is present and references are properly formatted in an appropriate citation format (IEEE or APA). The references were cited in the section Report - Reference appropriate citation format (IEEE or APA). The references were cited in the section Late submission (Individual) Deduct 2.5 marks (or 10% of total assignment marks) per late submission day. Deduct 1.5 marks: Between 55% and 70% in contert similarity is identified with another student's report or an external source (Ma may be withheld pending further investigation). Deduct 0.5 mark: Reference section is present but references are not properly formatted in an appropriate citation format (IEEE or APA). Reference not properly ident in the report. Deduct 1 mark: No reference section	Report - Grammar &	a	Correct spelling, grammar, and punctuation; complete sentences; correct use of		Deduct 0.5 mark: Few spelling and grammar errors; correct punctuation; complete sentences. Deduct 1 to 2 marks: Noticeable spelling and grammar errors; most sentences have punctuation and are complete; uses upper- and lowercase. Report not properly formatted. Deduct 2 to 3 marks: Many spelling, grammar, and punctuation errors; sentence fragments; incorrect use of capitalization. Poorly formatted report Deduct 0.5 mark: Between 25% and 40% in content similarity is identified with another student's report or an external source. Deduct 1 mark: Between 40% and 55% in content similarity is identified with another student's report
Report - Reference section a propriate citation format (IEEE or APA). The references were cited in the report. Deduct 1 mark: No reference section Late submission (Individual) Deduct 2.5 marks (or 10% of total assignment marks) per late submission day. Deduct 2.5 marks (or 10% of total assignment marks) per late submission day. Deduct 2.5 marks (or 10% of total assignment marks) per late submission day.	with other reports	a	external source.	0	Deduct 2 marks: > 70% similarity identified with another student's report or an external source (Marks may be withheld pending further investigation). Deduct 0.5 mark: Reference section is present but references are not properly formatted in an
Late submission (Individual) a Deduct 2.5 marks (or 10% of total assignment marks) per late submission day. e.g., -5 marks if the submission is made 2 days after the due date.		a	appropriate citation format (IEEE or APA). The references were cited in the	0	Deduct 1 mark: No reference section
Total Assignment Marks: 25		a	Deduct 2.5 marks (or 10% of total assignment marks) per late submission day.	0	e.g., -5 marks if the submission is made 2 days after
			Total Assignment Marks:	25	

Additional comments by Assessor: