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Faculty of Engineering
Department of Computer Science and Engineering

Academic Year 2024-25

Report

On

Continue Assessment Activity

Day & Date: Monday, 07/10/2024

Name of Activity: Debug the Code

Name of the Faculty Coordinator: Mr. K. S. Jadhav

Class & Division: S. Y. B. Tech (Division A and B)

Semester: 3rd

Name of subject: Data Structures

Subject Code: BTCOL306

Total no. of Students Present: 68 + 50

CO and PO Mapped with activity:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	-	1	–	–	–	-	-	–	-
CO2	-	-	-	1	-	–	–	–	-	-	–	3

Rubrics of Activity:

Criteria	Description	Marks
Debug the Code	Student have to debug the code with internal memory representation.	10
Internal POE	Test will be taken, from the experiment which are conducted during practical.	20

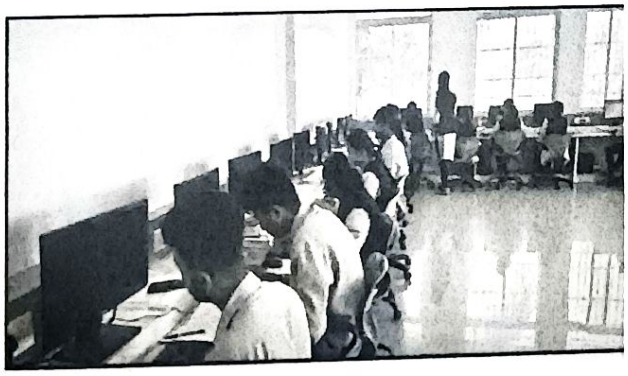
Objectives:

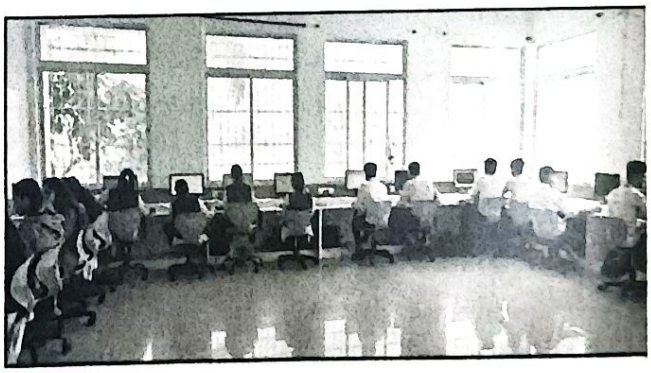
1. **Enhance Logical Thinking**: Foster a deeper understanding of programming logic by focusing on the structure and flow of the code rather than relying on trial and error.
2. **Encourage Clean Code Writing**: Promote writing syntactically correct and logically sound code without frequent testing.
3. **Improve Problem-Solving Skills**: Challenge participants to debug or solve problems methodically and without external cues.
4. **Develop Attention to Detail**: Encourage precision in syntax and logic to minimize errors.
5. **Boost Confidence**: Help participants gain confidence in their coding abilities by relying on their knowledge rather than tools.

Outcomes:

1. **Increased Code Accuracy**: Participants become more accurate in their initial code drafts, reducing dependency on frequent testing.
2. **Better Debugging Skills**: Improved ability to spot logical and syntactical errors through manual review.
3. **Enhanced Logical Flow Understanding**: Deeper comprehension of algorithms and code structures, as participants are forced to visualize the flow without output feedback.
4. **Improved Resilience Under Pressure**: Participants learn to work effectively in high-pressure or time-sensitive situations.
5. **Reinforced Memory of Syntax:** Writing code without autocomplete or syntax error detection strengthens recall and understanding of programming languages.
6. **Reflection on Mistakes:** Participants analyse and learn from mistakes made during the activity, leading to continuous improvement.

Photographs:





Course Coordinator

Yashoda Technical Campus Faculty of Engg.(CSE) Satara

H.O.D.
Computer Science & Engg.
YSPM'S Yashoda Technical Campus, Satara

19/11/24

Roll No : 59 Batch : S3

Name : Anjali suresh Rajmane

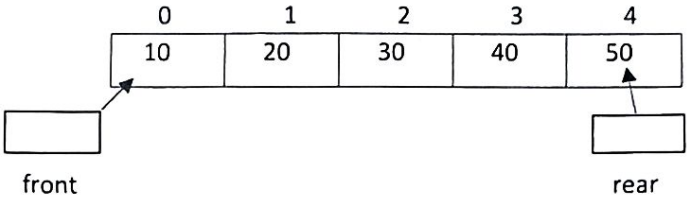
Debug the Source Code: Linear Queue Using Array

Define Max=5

Inside main function:

int queue [Max];

int choice, return_value;



INSERT:

int element;

Before pushing the elements in queue, we

have to check it is Full or not using

if (rear = = Max-1)

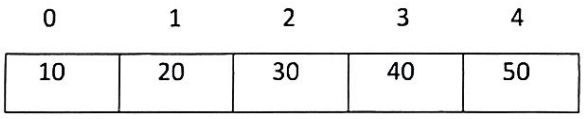
else

{

printf ("insert an element");

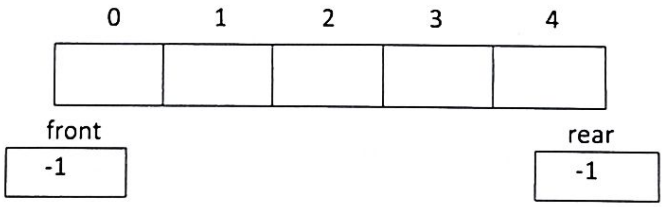
Scanf ("%d", element);

if (front= -1, rear= -1)



here this condition is true so, queue is full [Max=5]

rear= = 5-1 = 4



then we increment front and rear

front++ , rear++ and assign

front = rear = 0;

else

{ rear++;

}