**Assignment 3 Questions:**

1. Write java code to print Fibonacci series, upto 10 positions, without recursion

(Fibonacci series: 0 1 1 2 3 5 8 13… )

2. Write java code to print Fibonacci series, upto 10 positions, with recursion

3. Write a java code to reverse an array using recursion

4. Write a java code to merge two single linked list. Consider the linked list with atleast 5

nodes.

5. Write a java code to merge two double linked list. Consider the linked list with atleast

5 nodes.

6. Write a java code to arrange the elements of stack in increasing order.

|  |  |
| --- | --- |
| 5 | 3 |
| 4 | 12 |
| 3 | 4 |
| 2 | 10 |
| 1 | 0 |
| 0 | 20 |

First column indicates the index location and second column indicates the value in the stack

7. Write a java code to reverse single linked list using recursion. Explain each step in recursion graphically

**Link to upload:**

<https://amritavishwavidyapeetham-my.sharepoint.com/:f:/g/personal/s_sachinkumar_cb_amrita_edu/EijQCzTYMlRMty7wClSg0a8BgbzDWgeWbQNCkdhVYDs3ng>

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