MIDTERM EXAM

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1. BOOK TITLE

SYNTAX:

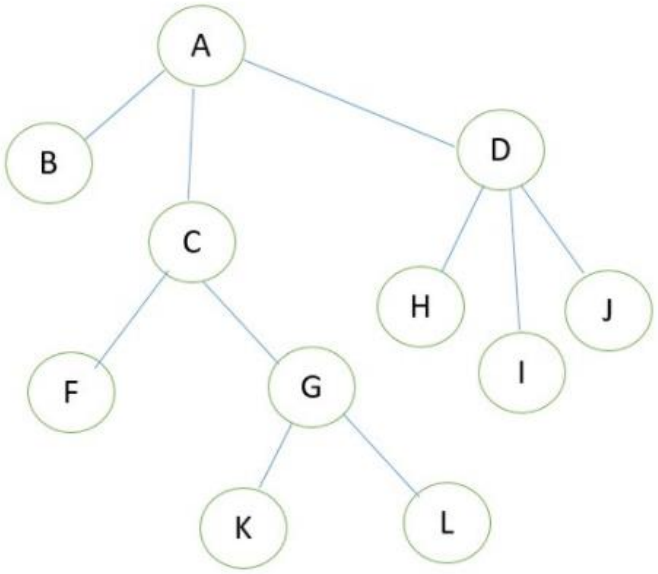
```
import java.util.*;
public class BookTicket {

    Run | Debug
    public static void main(String[] args) {
        Scanner a = new Scanner(System.in);
        Stack kuwento = new Stack();
        Queue bookingtitle = new LinkedList();

        System.out.println("Enter four book titles.");
        System.out.print("Book 1: ");
        String Title1 = a.nextLine();
        kuwento.add(Title1);

        System.out.print("Book 2: ");
        String Title2 = a.nextLine();
        kuwento.add(Title2);

        System.out.print("Book 3: ");
        String Title3 = a.nextLine();
        kuwento.add(Title3);

        System.out.print("Book 3: ");
        String Title4 = a.nextLine();
        kuwento.add(Title4);
```

```
        kuwento.pop();
        kuwento.pop();
        kuwento.pop();
        kuwento.pop();

        bookingtitle.offer(Title1);
        bookingtitle.offer(Title2);
        bookingtitle.offer(Title3);
        bookingtitle.offer(Title4);

        System.out.println("New order of books: ");
        System.out.println(bookingtitle);
    }

}
```

OUTPUT:

```
PS C:\Users\Gie>  & 'C:\Program Files\Java\jdk-11\bin\java.exe' '-cp' 'C:\Users\Gie\AppData\Local\Temp\vscodesws_470f3\jdt_ws\jdt.
ls-java-project\bin' 'BookTicket'
Enter four book titles.
Book 1: Ibong Adarna
Book 2: Florante at Laura
Book 3: Ilustrado
Book 3: ABNKKASANAPALAKO?!
New order of books:
[Ibong Adarna, Florante at Laura, Ilustrado, ABNKKASANAPALAKO?!]
PS C:\Users\Gie>
```

2. Based on the tree below, determine the parent nodes, leaf nodes, and siblings. **(15 points)**



Parent Node: A, D, C, G

Siblings: B & D, F & G, K & L, H, I & J

Leaf Nodes: B, F, K, L, H, I, J