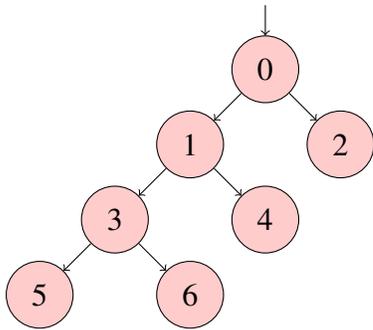


Traversals

1. Develop a Java app using the `nextBoolean` method of the `Random` class that gives rise to the following state space and that prints the number of a state when it is first visited.



```
public class Search {  
    public static void main(String[] args) {
```

```
    }  
}
```

2. What is the output when the state space is traversed using depth-first search?

3. What is the output when the state space is traversed using breadth-first search?