```
class Graph{
	ArrayList<Integer> [] adjList;
	int size;
	int [] startTime;
	int [] finishTime;

	pibli DFS(int root,Timer timer){
		timer.incClock();
		startTime[root] = timer.getTime();

		for(int neighbour:adjList[root]){
			if(startTime[root] == 0){
				DFS(neighbour,timer);
			}
		}

		timer.incClock();
		finishTime[root] = timer.getTime();
	}
}



class Timer {
	private volatile long time=0;

	synchronized  void incClock(){
		time++;
	}

	long getTime(){
		return time;
	}

}
```