

Template

AP Computer Science Recursion Mini Project				
Question	Possible Points	Your Points	Comments	
1. Description Slide				
Includes a correct qualitative description for recursive algorithms	15	15		
A diagram and/or graphical representation is used in explanation	15	15		
The logic for the diagram and/or graphical representation is stated correctly	15	15		
2. Role Play Slide				
Each student correctly demonstrates the role play with 2 or fewer mistakes	15	15		
Each student correctly demonstrates the role play with 1 or fewer mistakes	15	15		
Each student correctly demonstrates the role play with ZERO mistakes	15	15		
3. Java Code Demo Slide				
A sample program implementing a recursive method call (with no infinite recursion) is presented	15	15		
Program prints the elapsed time for the recursive algorithm	15	15		
Program includes a best-case scenario simulation	15	15		
Program includes a worst-case scenario simulation	15	15		
The code for the recursive method call is presented clearly and correctly	15	15		
4. Execution Time				
A graph of "Execution Time vs. Number of Recursive Method Calls" is presented	15	15		
A discussion of the results of this graph is presented	15	15		
5. Advantages/Disadvantages Slide				
Advantages of recursive algorithms is presented	15	15		
Disadvantages of recursive algorithms is presented	15	15		
6. Memory Issues Slide				
Memory Issues for the running recursive algorithms	15	15		
Totals		195	195	100.00%