Summary

Sink States: $0(0 \times 10^0)$

Table 1: Pulse Analysis Summary

Classes	Methods	States	Unsatisfiable Clauses	Unreachable States	Possible concurrent Methods	Total. no. of pairs	No. of concurrent pairs	Percentage of concurrent Methods
Fibonacci	4	1	0	0	3	10	6	60
Total Classes=1	4	1	0	0	3	10	6	60

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1 Fibonacci

Table 2: Methods Requires Clause Satisfiability

Method	Satisfiability
Fibonacci	$\sqrt{}$
computeFibonacci	
display	\checkmark
main	

Table 3: State Transition Matrix



Table 4: Methods Concurrency Matrix

	Fibonacci	computeFibonacci	display	main
Fibonacci	\parallel	#	#	\parallel
computeFibonacci	#			
display	#			
main	\parallel			

2 Abbreviation

Table 5: Used Abbreviation

Symbol	Meaning
	requires clause of the method is satisfiable
×	requires clause of the method is unsatisfiable
↑	The row-state can be transitioned to the column-state
×	The row-state cannot be transitioned to the column-state
	The row-method can be possibly executed parallel with the column-method
#	The row-method cannot be executed parallel with the column-method

3 Annotated Version of Sequential Java Program generated by Sip4j

```
package outputs;
import edu.cmu.cs.plural.annot.*;

@ClassStates({@State(name = "alive")})
class Fibonacci {
@Perm(ensures="unique(this) in alive")
Fibonacci() {
}

@Perm(requires="pure(#0) in alive",
in ensures="pure(#0) in alive")
Integer computeFibonacci(Integer num) {
return null;
}

@CPerm(requires="pure(#0) in alive",
ensures="pure(#0) in alive",
void display(Integer num) {
}

@Perm(requires="none(this) in alive",
ensures="unique(this) in alive",
ensures="unique(this) in alive",
void main(String[] args) {
}
}

ENDOFCLASS
```