CHATGPT ANALYSIS RESULTS BASED ON THE BENCHMARK "arepair"

SL	Spec	(1) With fix comment [Asked to satisfy assertion]	(2) With bug location but w/o fix comments [No mention of passing assertion]	(3) No fault location (No Bug / Fix comment and Loc) [Asked to fix assertion]	(4) No indication of bug location nor asking to pass the assertions
1	addr1	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found.	Type Error Message Observed	Counterexample) Instance found.
2	arr1	(Counterexample) Instance found.	No instance found. Predicate may be inconsistent	Type Error Message Observed	Type Error Message Observed
3	arr2	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Type Error Message Observed	Type Error Message Observed
4	balancedBST1	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
5	balancedBST2_1	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Type Error Message Observed	Counterexample) Instance found.
6	balancedBST2_2	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Type Error Message Observed	Counterexample) Instance found.
7	balancedBST2_3	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
8	balancedBST3_1	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
9	balancedBST3_2	(Counterexample) Instance found.	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.

10	bempl1	(Counterexample) Instance found.	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Instance found. Predicate is consistent
11	cd1_1	(Counterexample) Instance found.	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
12	cd1_2	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
13	cd2	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
14	ctree1	(Counterexample) Instance found.	Type Error Message Observed	Instance found. Predicate is consistent	Counterexample) Instance found.
15	dll1_1	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
16	dll1_2	(Counterexample) Instance found.	Instance found. Predicate is consistent (No counterexample found)	Counterexample) Instance found.	Counterexample) Instance found.
17	dll2_1	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Counterexample) Instance found.	Counterexample) Instance found.
18	dll2_2	(Counterexample) Instance found.	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
19	dll3_1	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Instance found. Predicate is consistent	Counterexample) Instance found.
20	dll3_2	(Counterexample) Instance found.	Instance found. Predicate is consistent	Instance found. Predicate is consistent	Counterexample) Instance found.
21	dll3_3	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
22	dII4	Instance found. Predicate is consistent	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
23	farmer1	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found. Predicate is consistent	(Counterexample) Instance found. Predicate is consistent	(Counterexample) Instance found. Predicate is consistent

24		Instance found.	Instance found.	No instance found.	(Counterexample)
		Predicate is consistent	Predicate is consistent	Predicate may be	Instance found.
	fsm1_1	(No counterexample found)	(No counterexample found)	inconsistent	Predicate is consistent
25		Instance found.	Instance found.	No instance found.	No instance found.
		Predicate is consistent	Predicate is consistent	Predicate may be	Predicate may be
	fsm1_2	(No counterexample found)	(No counterexample found)	inconsistent	inconsistent
26		Instance found.	No instance found.	No instance found.	Counterexample)
		Predicate is consistent	Predicate may be	Predicate may be	Instance found.
	fsm2	(No counterexample found)	inconsistent	inconsistent	
27		Instance found.	(Counterexample)	Instance found.	Counterexample)
	1.4	Predicate is consistent	Instance found.	Predicate is consistent	Instance found.
	grade1	(No counterexample found)		(0)	
28		Instance found.	(Counterexample)	(Counterexample)	Instance found.
	other1	Predicate is consistent (No counterexample found)	Instance found.	Instance found.	Predicate is consistent
29		(Counterexample)	Instance found.	Instance found.	Counterexample)
	student1	Instance found.	Predicate is consistent	Predicate is consistent	Instance found.
20	Studenti	(Countonous mails)	(No counterexample found)	Instance found	lantanan farrad
30		(Counterexample)	Instance found.	Instance found.	Instance found.
	student2_1	Instance found.	Predicate is consistent (No counterexample found)	Predicate is consistent	Predicate is consistent
31	500001102_2	Instance found.	Instance found.	Instance found.	Counterexample)
		Predicate is consistent	Predicate is consistent	Predicate is consistent	Instance found.
	student2_2	(No counterexample found)	(No counterexample found)	Trodicate to consistent	motario iodila.
32		Instance found.	Instance found.	Instance found.	Counterexample)
		Predicate is consistent	Predicate is consistent	Predicate is consistent	Instance found.
	student3_1		(No counterexample found)		
33		(Counterexample)	(Counterexample)	Instance found.	Counterexample)
		Instance found.	Instance found.	Predicate is consistent	Instance found.
	student3_2	Compilation warning given			
34	_	Instance found.	Instance found.	Instance found.	Counterexample)
		Predicate is consistent	Predicate is consistent	Predicate is consistent	Instance found.
	student4	(No counterexample found)	(No counterexample found)		
35		Instance found.	Instance found.	Instance found.	Counterexample)
	student5	Predicate is consistent	Predicate is consistent	Predicate is consistent	Instance found.
26	Students	(No counterexample found)	(No counterexample found)	(No counterexample found)	Countowayamanis
36		(Counterexample)	(Counterexample)	Instance found.	Counterexample) Instance found.
		Instance found.	Instance found.	Predicate is consistent	instance found.
	student6_1				

37		(Counterexample) Instance found.	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
	student6 2				
38	_	(Counterexample) Instance found.	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
	student7_1				
39	student7 2	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found.	Type Error Message Observed	Counterexample) Instance found.
40	student8	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found.	Instance found. Predicate is consistent (No counterexample found)	Counterexample) Instance found.
41	student9	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Type Error Message Observed	Counterexample) Instance found.
42	student10	(Counterexample) Instance found.	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
43	student11	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
44		Instance found. Predicate is consistent (No counterexample found)	Type Error Message Observed	Instance found. Predicate is consistent	Counterexample) Instance found.
	student12 1				
45	student12_2	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
46	student13	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
47	student14_1	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	(Warning displayed) Instance found. Predicate is consistent	Counterexample) Instance found.

48	student14_2	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
49	student15	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	(Warning displayed) Instance found. Predicate is consistent	Counterexample) Instance found.
50	student16	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
51	student17_1	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent (No counterexample found)	Instance found. Predicate is consistent	Counterexample) Instance found.
52	student17_2	Instance found. Predicate is consistent (No counterexample found)	(Counterexample) Instance found.	Instance found. Predicate is consistent	Counterexample) Instance found.
53	student18 1	Instance found. Predicate is consistent (No counterexample found)	Counterexample) Instance found.	Counterexample) Instance found.	Counterexample) Instance found.
54	student18_2	Instance found. Predicate is consistent (No counterexample found)	Counterexample) Instance found.	Counterexample) Instance found.	Counterexample) Instance found.
55	student18_3	Instance found. Predicate is consistent (No counterexample found)	Type Error Message Observed	Counterexample) Instance found.	Instance found. Predicate is consistent
56	student19_1	Instance found. Predicate is consistent (No counterexample found)	Counterexample) Instance found.	Counterexample) Instance found.	Counterexample) Instance found.
57	student19_2	Instance found. Predicate is consistent (No counterexample found)	Counterexample) Instance found.	Counterexample) Instance found.	Counterexample) Instance found.