

Supplementary Material

Table 1. The performance of the three analyzers on the 38 defect-exposing programs. Column “Original Analyzer” indicates in which analyzer does this defect found. “Y” and “N” represent whether or not this defect-exposing program reveals a problem in the analyzer. “-” means that it is the original defect-exposing program found in that analyzer.

#	Oracle	Original Analyzer	CSA	GSA	Pinpoint
1	<i>Dynamic</i>	GSA	N	-	N
2	<i>Static</i>	GSA	N	-	N
3	<i>Static</i>	GSA	N	-	N
4	<i>Static</i>	CSA	-	N	N
5	<i>Static</i>	GSA	N	-	N
6	<i>Dynamic</i>	Pinpoint	N	N	-
7	<i>Static</i>	GSA	Y	-	N
8	<i>Static</i>	GSA	N	-	N
9	<i>Static</i>	CSA	-	N	Y
10	<i>Dynamic</i> ⁻	CSA	-	N	N
11	<i>Dynamic</i>	CSA	-	N	N
12	<i>Dynamic</i>	CSA	-	N	N
13	<i>Dynamic</i> ⁻	GSA	N	-	N
14	<i>Dynamic</i> ⁻	GSA	N	-	Y
15	<i>Dynamic</i>	GSA	N	-	N
16	<i>Dynamic</i> ⁻	GSA	N	-	Y
17	<i>Static</i>	GSA	N	-	N
18	<i>Static</i>	GSA	N	-	N
19	<i>Static</i>	GSA	N	-	N
20	<i>Dynamic</i>	Pinpoint	Y	N	-
21	<i>Dynamic</i>	Pinpoint	N	N	-
22	<i>Dynamic</i> ⁻	GSA	N	-	N
23	<i>Static</i>	CSA	-	N	N
24	<i>Static</i>	CSA	-	N	Y
25	<i>Static</i>	CSA	-	N	N
26	<i>Dynamic</i>	GSA	N	-	N
27	<i>Dynamic</i>	CSA	-	N	N
28	<i>Dynamic</i> ⁻	GSA	N	-	N
29	<i>Dynamic</i>	GSA	N	-	N
30	<i>Dynamic</i> ⁻	GSA	-	-	N
31	<i>Static</i>	GSA	Y	-	N
32	<i>Static</i>	CSA	-	Y	N
33	<i>Dynamic</i>	GSA	N	-	N
34	<i>Static</i>	GSA	N	-	N
35	<i>Dynamic</i>	CSA	-	Y	N
36	<i>Dynamic</i>	GSA	Y	-	N
37	<i>Static</i>	GSA	N	-	N
38	<i>Static</i>	CSA	-	N	N

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