

An Empirical Evaluation of GHRB Copilot's Code Generation									
ID	Correctness	Validity	Time Complexity Generated	Time Complexity General	Space Complexity Generated	Space Complexity General	Security Rating	Big Count	Code Snail Count
1	1	1	0	0	0	0	1.0	0	0
1	0	1	0	0	0	0	1.0	0	0
2	1	1	0	0	0	0	1.0	0	0
3	1	1	0	0	0	0	1.0	0	0
4	1	1	0	0	0	0	1.0	0	0
5	0.33333333	1	0	0	0	0	1.0	0	0
6	0	1	0	0	0	0	1.0	0	0
7	1	1	0	0	0	0	1.0	0	0
8	-1	0	0	0	0	0	1.0	0	0
9	1	1	0	0	0	0	1.0	0	0
10	0.5	1	0	0	0	0	1.0	0	0
11	1	1	0	0	0	0	1.0	0	0
12	1	1	0	0	0	0	1.0	0	0
13	1	1	0	0	0	0	1.0	0	0
14	1	1	0	0	0	0	1.0	0	0
15	1	1	0	0	0	0	1.0	0	0
16	1	1	0	0	0	0	1.0	0	0
17	-1	0	0	0	0	0	1.0	0	0
18	0.75	1	0	0	0	0	1.0	0	0
19	0.4	1	0	0	0	0	1.0	0	0
20	0	1	0	0	0	0	1.0	0	0
21	0	1	0	0	0	0	1.0	0	0
22	1	1	0	0	0	0	1.0	0	0
23	1	1	0	0	0	0	1.0	0	0
24	0	1	0	0	0	0	1.0	0	0
25	0.25	1	0	0	0	0	1.0	0	0
26	0.55555556	1	0	0	0	0	1.0	0	0
27	1	1	0	0	0	0	1.0	0	0
28	1	1	0	0	0	0	1.0	0	0
29	1	1	0	0	0	0	1.0	0	0
30	1	1	0	0	0	0	1.0	0	0
31	0.99999997	1	0	0	0	0	1.0	0	0
32	-1	0	0	0	0	0	1.0	0	0
33	0	1	0	0	0	0	1.0	0	0
34	1	1	0	0	0	0	1.0	0	0
35	1	1	0	0	0	0	1.0	0	0
36	0	1	0	0	0	0	1.0	0	0
37	0	1	0	0	0	0	1.0	0	0
38	0	1	0	0	0	0	1.0	0	0
39	0	1	0	0	0	0	1.0	0	1
40	0.77777778	1	0	0	0	0	1.0	0	0
41	0	1	0	0	0	0	1.0	0	0
42	1	1	0	0	0	0	1.0	0	0
43	0.55555556	1	0	0	0	0	1.0	0	0
44	0.5	1	0	0	0	0	1.0	0	0
45	1	1	0	0	0	0	1.0	0	0
46	0	1	0	0	0	0	1.0	0	1
47	0.5	1	0	0	0	0	1.0	0	0
48	1	1	0	0	0	0	1.0	0	0
49	1	1	0	0	0	0	1.0	0	0
50	1	1	0	0	0	0	1.0	0	0
51	1	1	0	0	0	0	1.0	0	0
52	1	1	0	0	0	0	1.0	0	0
53	1	1	0	0	0	0	1.0	0	0
54	0.57142857	1	0	0	0	0	1.0	0	0
55	1	1	0	0	0	0	1.0	0	0
56	1	1	0	0	0	0	1.0	0	0
57	0.5	1	0	0	0	0	1.0	0	0
58	1	1	0	0	0	0	1.0	0	0
59	1	1	0	0	0	0	1.0	0	0
60	1	1	0	0	0	0	1.0	0	0
61	1	1	0	0	0	0	1.0	0	0
62	0.2	1	0	0	0	0	1.0	0	0
63	1	1	0	0	0	0	1.0	0	0
64	0.42857143	1	0	0	0	0	1.0	0	0
65	0.8	1	0	0	0	0	1.0	0	0
66	0.125	1	0	0	0	0	1.0	0	2
67	-1	0	0	0	0	0	1.0	0	0
68	0.25	1	0	0	0	0	1.0	0	0
69	0.4	1	0	0	0	0	1.0	0	0
70	0.33333333	1	0	0	0	0	1.0	0	0
71	0.55555556	1	0	0	0	0	1.0	0	0
72	1	1	0	0	0	0	1.0	0	0
73	1	1	0	0	0	0	1.0	0	0
74	0.88888889	1	0	0	0	0	1.0	0	0
75	0.5	1	0	0	0	0	1.0	0	0
76	0.5	1	0	0	0	0	1.0	0	0
77	0.375	1	0	0	0	0	1.0	0	0
78	1	1	0	0	0	0	1.0	0	0
79	1	1	0	0	0	0	1.0	0	0
80	0.625	1	0	0	0	0	1.0	0	0
81	0.33333333	1	0	0	0	0	1.0	0	0
82	0.8125	1	0	0	0	0	1.0	0	0
83	0.2	1	0	0	0	0	1.0	0	1
84	0	1	0	0	0	0	1.0	0	1
85	0.5	1	0	0	0	0	1.0	0	0
86	0.42857143	1	0	0	0	0	1.0	0	0
87	0.55555556	1	0	0	0	0	1.0	0	0
88	-1	0	0	0	0	0	1.0	0	0
89	0	1	0	0	0	0	1.0	0	0
90	0.71428571	1	0	0	0	0	1.0	0	0
91	0.16666667	1	0	0	0	0	1.0	0	1
92	0.8	1	0	0	0	0	1.0	0	0
93	0	1	0	0	0	0	1.0	0	0
94	0.22222222	1	0	0	0	0	1.0	0	0
95	0.85714286	1	0	0	0	0	1.0	0	0
96	1	1	0	0	0	0	1.0	0	0
97	0.25	1	0	0	0	0	1.0	0	0
98	0.57142857	1	0	0	0	0	1.0	0	0
99	-1	0	0	0	0	0	1.0	0	0
100	-1	0	0	0	0	0	1.0	0	0
101	0.16666667	1	0	0	0	0	1.0	0	0
102	0.5	1	0	0	0	0	1.0	0	0
103	0.16666667	1	0	0	0	0	1.0	0	0
104	0.25	1	0	0	0	0	1.0	0	0
105	0.2	1	0	0	0	0	1.0	0	0
106	0.5	1	0	0	0	0	1.0	0	0
107	1	1	0	0	0	0	1.0	0	0
108	-1	0	0	0	0	0	1.0	0	0
109	0.4	1	0	0	0	0	1.0	0	0
110	0.57142857	1	0	0	0	0	1.0	0	0
111	1	1	0	0	0	0	1.0	0	0
112	0.11111111	1	0	0	0	0	1.0	0	0
113	0	1	0	0	0	0	1.0	0	0
114	0.33333333	1	0	0	0	0	1.0	0	1
115	0	1	0	0	0	0	1.0	0	0
116	1	1	0	0	0	0	1.0	0	0
117	0.85714286	1	0	0	0	0	1.0	0	0
118	0.35714286	1	0	0	0	0	1.0	0	0
119	0.33333333	1	0	0	0	0	1.0	0	0
120	0.36363636	1	0	0	0	0	1.0	0	0
121	1	1	0	0	0	0	1.0	0	0
122	1	1	0	0	0	0	1.0	0	0
123	-1	0	0	0	0	0	1.0	0	0
124	1	1	0	0	0	0	1.0	0	2
125	0.375	1	0	0	0	0	1.0	0	0
126	0.84615385	1	0	0	0	0	1.0	0	0
127	0.375	1	0	0	0	0	1.0	0	0
128	0.125	1	0	0	0	0	1.0	0	0
129	0	1	0	0	0	0	1.0	0	2
130	0.1	1	0	0	0	0	1.0	0	0
131	0.57142857	1	0	0	0	0	1.0	0	1
132	0.55555556	1	0	0	0	0	1.0	0	0
133	0.4	1	0	0	0	0	1.0	0	0
134	-1	0	0	0	0	0	1.0	0	0
135	1	0	0	0	0	0	1.0	0	0
136	0.5	1	0	0	0	0	1.0	0	0
137	0.25	1	0	0	0	0	1.0	0	0
138	0.5	1	0	0	0	0	1.0	0	0
139	0.72676231	1	0	0	0	0	1.0	0	0
140	0.72727273	1	0	0	0	0	1.0	0	0
141	0.71428571	1	0	0	0	0	1.0	0	0
142	0.33333333	1	0	0	0	0	1.0	0	0
143	-1	0	0	0	0	0	1.0	0	0
144	0.57142857	1	0	0	0	0	1.0	0	1
145	0.5	1	0	0	0	0	1.0	0	0
146	0.28571429	1	0	0	0	0	1.0	0	1
147	0.5	1	0	0	0	0	1.0	0	0
148	0.42857143	1	0	0	0	0	1.0	0	0
149	1	1	0	0	0	0	1.0	0	0
150	-1	0	0	0	0	0	1.0	0	0
151	0.57142857	1	0	0	0	0	1.0	0	0
152	0.5	1	0	0	0	0	1.0	0	0
153	0.99999999	1	0	0	0	0	1.0	0	0
154	0.75	1	0	0	0	0	1.0	0	0
155	0	1	0	0	0	0	1.0	0	0