

Problem A:

Learning Arithmetic Operations from Gate-Level Circuit

Rank	test10			test12			test13			test14			test15		
	output	cost	score	output	cost	score	output	cost	score	output	cost	score	output	cost	score
1	pass	4	1	pass	23	1	pass	18	1	pass	2	1	pass	12	1
2	pass	6	0.666667	pass	24	0.958333	pass	19	0.947368	pass	3	0.666667	pass	13	0.923076
3	pass	3029	0	fail		0	pass	24	0.75	pass	83	0	pass	19	0.631578
4	fail		0				pass	32	0.5625	fail		0	pass	27	0.444444
5							pass	34	0.529411				pass	28	0.428571

Rank	test16			test17			test18			test19			test20		
	output	cost	score	output	cost	score	output	cost	score	output	cost	score	output	cost	score
1	pass	5	1	pass	7	1	pass	12	1	pass	91	1	pass	18	1
2	pass	6	0.833333	pass	8	0.875	pass	14	0.857413	pass	92	0.98913	pass	25	0.75
3	pass	7	0.714286	pass	10	0.7	pass	25	0.48	pass	118	0.771186	pass	25	0.72
4	pass	12	0.416667	pass	11	0.636364	pass	33	0.363636	pass	2379	0	pass	29	0.62089
5	fail		0	pass	12	0.583333	pass	41	0.292683	fail		0	pass	5104	0

Rank	test21			test22			test23			test24			test25		
	output	cost	score	output	cost	score	output	cost	score	output	cost	score	output	cost	score
1	pass	55	1	pass	25	1	pass	4	1	fail		0	pass	90	1
2	pass	59	0.932203	pass	107253	0	pass	12	0.333333				pass	237	0
3	pass	62	0.887097	fail		0	pass	504	0				fail		0
4	pass	93	0.591398				fail		0						
5	pass	2074	0												

Rank	test26			test27			test28			test29			test30		
	output	cost	score	output	cost	score	output	cost	score	output	cost	score	output	cost	score
1	pass	17621	0	pass	3539	0	pass	8970	0	pass	53	1	pass	18	1
2	fail		0	fail		0	pass	12007	0	pass	410	0	pass	24	0.75
3							fail		0	pass	842	0	pass	29	0.62063
4										fail		0	pass	573	0.03414
5													pass	660	0.027273