Project-1: Division Table Algorithm

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Extended Euclidean Algorithm Steps for a = 384168, b = 39096

Quotient	Remainder	X	Y
9	39096	1	-9
1	32304	-1	10
4	6792	5	-49
1	5136	-6	59
3	1656	23	-226
9	168	-213	2093
1	144	236	-2319
6	24	-1629	16007

Final Result: gcd(384168, 39096) = 24, x = 236, y = -2319

Extended Euclidean Algorithm Steps for a = 494752, b = 296864

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Quotient	Remainder	X	Y
1	296864	1	-1
1	197888	-1	2
1	98976	2	-3
1	98912	-3	5
1545	64	4637	-7728
2	32	-9277	15461

Final Result: gcd(494752, 296864) = 32, x = 4637, y = -7728

Extended Euclidean Algorithm Steps for a = 17601969, b = 2364768

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Quotient	Remainder	X	Y
7	2364768	1	-7
2	1048593	-2	15
3	267582	7	-52
1	245847	-9	67
11	21735	106	-789
3	6762	-327	2434
4	1449	1414	-10525
1	966	-1741	12959
2	483	4896	-36443

Final Result: gcd(17601969, 2364768) = 483, x = -1741, y = 12959