Calculator's Examination:

Algorithm	Question	Expectation	Result	Status
once time addition	1 + 2 =	3	3	Pass
multiple time addition	1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 =	54	54	Pass
once time subtraction	2 – 1 =	1	1	Pass
multiple time subtraction	9 – 8 – 1 =	0	0	Pass
once time multiplication	3 * 6 =	18	18	Pass
multiple time multiplication	5 * 10 * 8 * 13 =	5200	5200	Pass
once time division	9 / 4 =	2.25	2.25	Pass
multiple time division	40 / 5 / 8 =	1	1	Pass
powers	sqr (2) =	4	4	Pass
roots	√ (81) =	9	9	Pass
percentages	10 / 100 =	0.1	0.1	Pass
fractions	1 / (20) =	0.05	0.05	Pass
negative number	1 – 2 =	-1	-1	Pass
complication algorithm (1)	{[√ (9 * 9)] / 3} * 47 =	141	141	Pass
complication algorithm (2)	Sqr (2) * 9 =	36	36	Pass
complication algorithm (3)	√ [(½) * 2] =	1	1	Pass
complication algorithm (4)	sqr {[(-2 * 7) + 8] * 9} =	2916	2916	Pass
complication algorithm (5)	[(√ sqr (8)) * 2] / 16 =	0.0625	0.0625	Pass
Validation	1 / 0 =	pop up error	pop up error	Pass
Validation	√ (-1) =	NaN	NaN	Pass

Demonstration (Showcase):
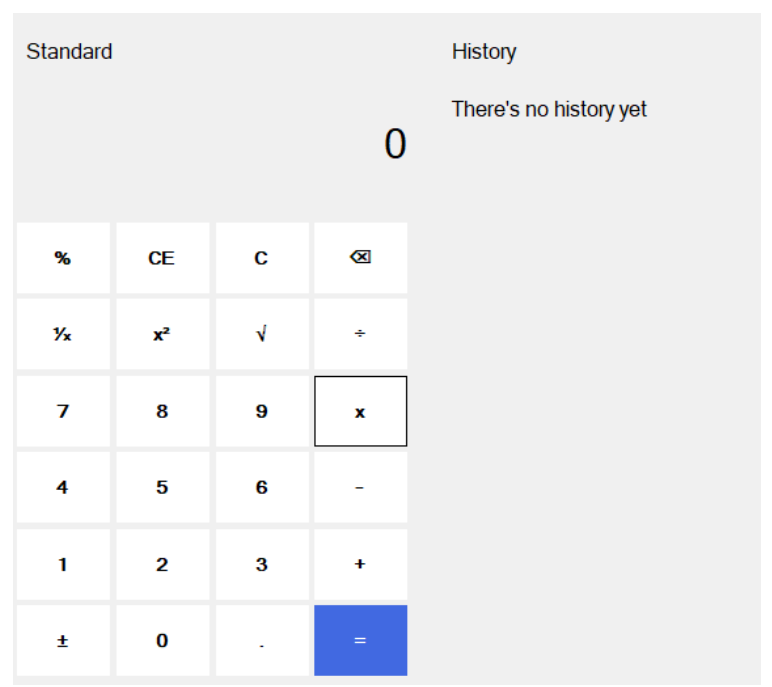
GUI (Graphical User Interface)
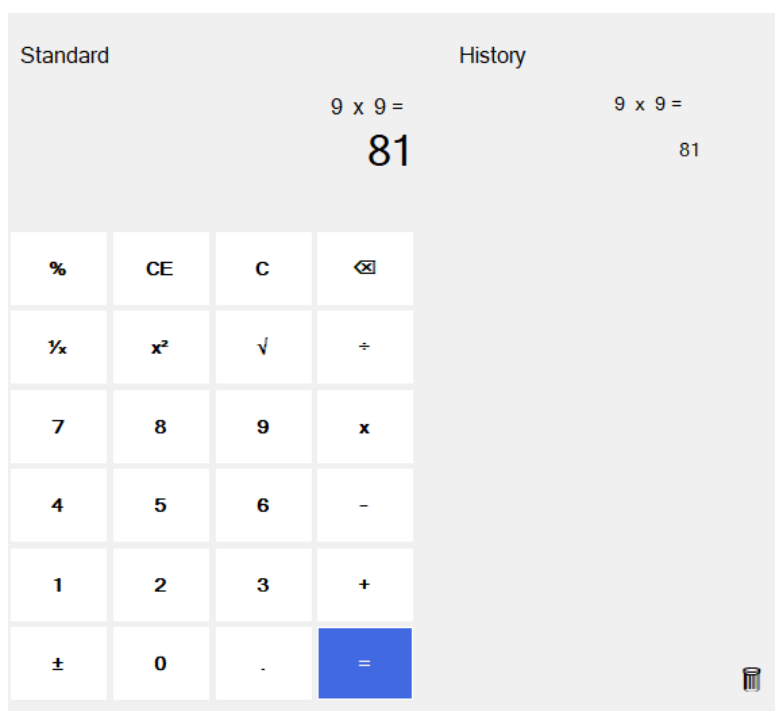
Algorithm result and action displayed

Standard				History

0

sqr(8) =

64

√(64) =

8

8 x 2 =

16

1/(16) 16 =

0.0625

√(-1) =

NaN

%	CE	C	⌫
⅟ₓ	x²	√	÷
7	8	9	x
4	5	6	−
1	2	3	+
±	0	.	=

Algorithm history displayed