Toctid	description	Expected	Actual
	1+1		2
	0+1		1
	9223372036854775807 + 9223372036854775807		1.84E+19
	9 + 10	19	
5	4294967295 + 4294967295		8.59E+09
6	1-1	0	0
7	-1	-1	-1
8	\$	NaN	NaN
9	2^4	16	16
	2^512	134078079299425970995740 249982058461274793658205 923933777235614437217640 300735469768018742981669 034276900318581864860508 537538828119465699464336 49006084096	
11	NaN + 2		NaN
	entering nothing		0
	60 - 0 (with a space between 60 and -)		NaN
	60 * 0		0
	5 - 2		
			NaN
	Robert'); DROP TABLE STUDENTS;		NaN .
	80/4*5		4
	(80/4)*5		100.0
	5*80/4		100.0
20	5*(80/4)	100	100.0
21	80/(4*5)	4	4.0
	2&1	NaN	NaN
	16 ^^ 2		1.0
	3443 ^^^^ 23		1.0
	1/0		NaN
	0/1		0.0
			0.3
	1+		NaN
	/1		0.0
	1/		NaN
	1*		NaN
	*1		0.0
33	((((1+1))))	2	2.0
34	52	7	NaN
35	2^3 + 2	10	32.0
	2^1 + 2 + 3		64.0
	2^(3) + 1		16.0
	(2^3) + 1		9.0
39	+1		1.0
	(2^3)-3		NaN 14.0
	(2^3)+3*(8-6)		14.0
	(2^3)+3(8-6)		40
	3(2)		32.0
	(1)(1)		11.0
	2^2^2		16.0
	2^(2-3)	0.5	0.5
47	1-2°2+3	0 7.4583407312002067432909 653154629338373764715346 004068942715183332062783 850701183049361748904004 278033615116032558361014 534127280952253026604861	1.0
	2^-512	648295920846914812607923 187813774952040742664352 629414465543650639147654 142172605885071200316868 2300322274229756369992653 502153372060583365166286 640036129274335518469886 573264990081533198917895 78832685947418212890625 × 10^-155	0
49	1.0 + 2	3	3.0
50	(-1)^(0.5)	NaN or i	NaN
	2**2		0.0
52	2++++++2	NaN	4.0
	0		NaN
	(1+2 missing bracket		NaN
	1+()		NaN
	1(-1)		NaN
	2-(-2)		NaN
	22		4
	2//2		NaN
	(1 + (2 + 3))		6.0
	3+*3		3
	2^3 + 2^3		32768.0
	2^(3) + 2^(3)		32768
	2(^3)		20
65	(^0)	NaN	1

66	0^0	1	1
67	(^0)^2	NaN	1
68	(+12)	NaN	12
69	123	NaN	123
70	(+* 1 2)	NaN	0.0
71	2.000001+2.000002	4.000003	4.0
72 8/-2		-4	-4.0
73	testing the buttons - delete results in a error stack trace when the input is already empty	don't do anything	Exception in thread "AWT-EventQueue-0" java lang StringIndexOutOfBoundsException: begin 0, end -1, length 0 at java hase/java lang String, checkBoundsBeginEnd(String java:3410) at java.base/java.lang String, checkBoundsBeginEnd(String java:3410) at java.base/java.lang String, checkBoundsBeginEnd(String java:3410) at java.desktopjavax.swing.AbstractButton.ifeActionPerformed(AbstractButton.java:1967) at java.desktopjavax.swing, AbstractButtonSHandler.actionPerformed(AbstractButton).java:208) at java.desktopjavax.swing, DefaultButtonModel.setPressed(DefaultButtonModel.java:305) at java.desktopjavax.swing.DefaultButtonModel.setPressed(DefaultButtonModel.java:262) at java.desktopjavax.swing.DefaultButtonModel.setPressed(DefaultButtonModel.java:262) at java.desktopjava.awt.Component.processMouseEvent(Component.java:6832) at java.desktopjava.awt.Component.processMouseEvent(Component.java:6832) at java.desktopjava.awt.Component.processEvent(Component.java:6397) at java.desktopjava.awt.Component.processEvent(Component.java:6397) at java.desktopjava.awt.Component.processEvent(Component.java:3342) at java.desktopjava.awt.Component.dispatchEventImpl(Component.java:3342) at java.desktopjava.awt.Component.dispatchEventImpl(Component.java:3508) at java.desktopjava.awt.Component.dispatchEventImpl(Component.java:3508) at java.desktopjava.awt.Component.dispatchEventImpl(Container.java:2321) at java.desktopjava.awt.LightweightDispatcher.processMouseEvent(Container.java:4918) at java.desktopjava.awt.LightweightDispatcher.processMouseEvent(Container.java:4910) at java.desktopjava.awt.UightweightDispatcher.processMouseEvent(Container.java:4910) at java.desktopjava.awt.Window.dispatchEventImpl(Container.java:2307) at java.desktopjava.awt.Window.dispatchEventImpl(Container.java:2307) at java.desktopjava.awt.Window.dispatchEventImpl(Container.java:2307) at java.desktopjava.awt.Window.dispatchEventImpl(Container.java:2307) at java.desktopjava.awt.EventQueue.java:710 at java.desktopjava.awt.EventQueue.java.TillorentQueue.java:711 at java

Table 1: Test cases carried out against the calculator program. Failed test cases are highlighted in red.