Shunting Yard Algorithm

To transform a math expression to Reverse Polish Notation (RPN)

1+sin(a+b*3)*2 → 1 a b 3 * + sin 2 * +

1	2	3	4	5	6	7	8	9	10	11	12	12	13
1	+	sin	(	a	+	b	*	3	)	*	2		
+	sin	(	a	+	b	*	3	3	*	2	1	1	1
sin	(	(	a	+	b	*	)	2	2	1	1	a	a
(	a	(	+	*	*	3	)	1		a	a	b	b
a	+	a	b	*	3	3	)		1	a	a	b	b
+	b	+	b	3	3	3	)	1	a	b	3	3	3
b	*	+	*	3	*	2		a	a	b	3	3	3
*	3	3	*	*	*	1		a	3	3		*	*
3	)	3	*	*		1	a	+	+	*	*	sin	sin
)	*	)	*	2			b			*	sin	2	2
*	2	)	2	2		+	a	sin	sin	+	sin	+	*
2	1	2	1	+	+	sin	sin	(	(	+	*	+	+
		1	2	sin	sin	(	(	+	+	+	+	*	*
			1	+	(	(	+	*	*				+
		+	sin	sin	(	+	+	sin	sin	*	sin	sin	sin
				(									2
													*