



Regular expressions worksheet

Regular expression	Description	Strings produced
$b a^* b$	A b followed by zero or more a with b in the end	bb,bab,baab, ...
0^+1^+0	One or more 0 followed by one or more 1s followed by 1 or more 0	010, 0110, ...
$(abc)^+$	abc repeated any number of times	abc, abcabc, abcabcabc
$a^*(ba)$	Zero or more a followed by ba at end	ba, aba, aaba, ...
$a^+ b? c$	One or more a, followed by optional b with c at the end	ac, abc, aac, aabc,
$(a b c)d^*e$	One a, b or c followed by zero or more d with e at the end	ae, ade, bde, bdde, ...
a^+b	One or more a followed by b	ab, aab, aaab, aaaab, ...
$(a b) c ?$	One a or b wither followed by c or not	a, b, ac, bc
$(ba)^+(cd)^+$	One or more ba followed by one or more cs	bacd, babacd, babacdcd,
$a ? b^*$	Optional a followed any number of b	b, ab, abb, abbb,
$(a b)$	a or b	a, b
$(a b c)^*$	Any number and combination of a,b and c	aa, abc, ab, abbcbcba,...
$1^+ 0^+$	1 or more ones, or 1 or more zero	1,0,11,00,111,000,...
$Joh?n$	Jo followed by optional h and ends with n	Jon, John



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Strings	Regular expression
bc, abc, aabc, ...	a^*bc
b, a, ab, aa, bb, aabb, aab, abb, ...	a^*b^*
01,010,0110,01110,011110, ...	$011^*0?$
a,bc	$a bc$
1,11,1110,111100,...	$1+0^*$