

## Regular Expressions

$(a \cup bc)$

$0(0 \cup 1)1$

$0^*$

$(0 \cup 1)^*$

## More Examples

$(0^*1^*)^*$

$0^*1^*$

$(0 \cup 1)^*(00 \cup 11)^*(0 \cup 1)^*$

$(00 \cup 11)^*$

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## More Practice

You can also go the other way

Write a regular expression for "the set of all binary strings of odd length"

Write a regular expression for "the set of all binary strings with at most two ones"

Write a regular expression for "strings that don't contain 00"

## Examples

$$S \rightarrow 0S0|1S1|0|1|\varepsilon$$
$$S \rightarrow 0S|S1|\varepsilon$$
$$S \rightarrow (S)|SS|\varepsilon$$