C# - GROUPING CONSTRUCTS

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Grouping constructs delineate sub-expressions of a regular expression and capture substrings of an input string. The following table lists the grouping constructs –

Grouping construct	Description	Pattern	Matches
sub expression	Captures the matched subexpression and assigns it a zero-based ordinal number.	\w\1	"ee" in "deep"
$? < name \\ > subexpression$	Captures the matched subexpression into a named group.	$? < double > \w$ \k< double>	"ee" in "deep"
$? < name1 \ -name2 \ > subexpression$	Defines a balancing group definition.	$((?'Open'\backslash([^\backslash\backslash)]*+(?'Close-Open'\backslash)[^\backslash\backslash)]*+)*?(Open?!)$	" $(1-3*3-1)$ " in " $3+2^{(1-3*3-1)}$ "
?: subexpression	Defines a noncapturing group.	Write? : Line?	"WriteLine" in "Console.WriteLine"
?imnsx-imnsx = subexpression	Applies or disables the specified options within subexpression.	A\d{2}?i:\w+\b	"A12xl", "A12XL" in "A12xl A12XL a12xl"
?=subexpression	Zero-width positive lookahead assertion.	\w+? = \.	"is", "ran", and "out" in "He is. The dog ran. The sun is out."
?! subexpression	Zero-width negative lookahead assertion.	\b?!un\w+\b	"sure", "used" in "unsure sure unity used"
? <= subexpression	Zero-width positive lookbehind assertion.	? $<= 19 \d{2}\b$	"99", "50", "05" in "1851 1999 1950 1905 2003"

? < !subexpression	Zero-width negative lookbehind assertion.	? 19\d{2}\b</th <th>"51", "03" in "1851 1999 1950 1905 2003"</th>	"51", "03" in "1851 1999 1950 1905 2003"
?>subexpression	Nonbacktracking or " greedy " subexpression.	[13579]? $> A + B +$	"1ABB", "3ABB", and "5AB" in "1ABB 3ABBC 5AB 5AC"