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Regular Expressions Cookbook, 2nd Edition by Steven Levithan, Jan Go...

## 6.7. Numbers Within a Certain Range

### Problem

You want to match an integer number within a certain range of numbers. You want the regular expression to specify the range accurately, rather than just limiting the number of digits.

### Solution

1 to 12 (hour or month):

```
^(1[0-2] | [1-9])$
```

**Regex options:** None

**Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

1 to 24 (hour):

```
^(2[0-4] | 1[0-9] | [1-9])$
```

**Regex options:** None

**Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

1 to 31 (day of the month):

```
^(3[01]|[12][0-9]|[1-9])$
```

**Regex options:** None

**Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

1 to 53 (week of the year):

```
^(5[0-3]|[1-4][0-9]|[1-9])$
```

**Regex options:** None

**Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

0 to 59 (minute or second):

```
^[1-5]?[0-9]$
```

**Regex options:** None

**Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

0 to 100 (percentage):

```
^(100|[1-9]?[0-9])$
```

**Regex options:** None

**Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

1 to 100:

```
^(100|[1-9][0-9]?)$
```

**Regex options:** None

**Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

32 to 126 (printable ASCII codes):

```
^(12[0-6]|1[01][0-9]|[4-9][0-9]|3[2-9])$
```

**Regex options:** None

**Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

0 to 127 (nonnegative signed byte):

```
^(12[0-7]|1[01][0-9]|[1-9]?[0-9])$
```

**Regex options:** None

**Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

-128 to 127 (signed byte):

```
^(12[0-7]|1[01][0-9]|[1-9]?[0-9]|-(12[0-8]|1[01][0-9]|[1-9]?[0-9]))$ ...
```

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