Regex: Unit 4, Section 3.1

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```r
#1. Only the strings "cat", "at", and "t".
grep("[cat]", c("cat", "at","t"),value=T)
```

```
## [1] "cat" "at"  "t"
```

```r
#2. The strings "cat", "caat", "caaat", etc.
grep("[cat]", c("cat","caat","caaat"),value=T)
```

```
## [1] "cat"   "caat"  "caaat"
```

```r
#3. "dog", "Dog", "dOg", "doG", "DOg", etc. (the word dog in any combination of lower and upper case).
grep("[dD][oO][gG]",c("dog","Dog","dOg","doG","DOg"),value=T)
```

```
## [1] "dog" "Dog" "dOg" "doG" "DOg"
```

```r
grep("[dog]",c("dog","Dog","dOg","doG","DOg"),value=T)
```

```
## [1] "dog" "Dog" "dOg" "doG" "DOg"
```

```r
#4. Any positive number with or without a decimal point.
grep("^25",c(25, 25.01034,2825),value=T)
```

```
## [1] "25"        "25.01034"
```

```r
#5. Any line with exactly two words separated by any amount of whitespace (spaces or tabs). There may o
grep("\\shello\\sworld\\s",c("Hello world","Hello world "," Hello world"),perl = T)
```

```
## integer(0)
```