

1.

```
expr = r" A{2,5} "  
input = " AAA AAAAAA "  
re.search(expr, input)
```
2.

```
re.sub(r"[0-9]+\.[0-9]+", "float", "12.35")
```
3.

```
t = re.subn(r"[0-9]+\.[0-9]+", "float", "12.35")  
print t[1]
```
4.

```
expr = r"[\d-]+"  
lst = re.findall(expr, "hello 56 73 95 34 bye.")  
sum = 0  
for i in range(0, len(lst)):  
    sum = sum + int(lst[i])  
avg = sum / len(lst)  
print avg
```
5.

```
re.sub(r"EE461", "EE461", "This is EE364 checking EE364 EE364.", 1)
```
6.

```
pattern = r"^(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)$"
m = re.match(pattern, "128.210.011.007")
```
7.

```
re.search("e", input, re.I) -> searches for the letter "e" or "E" in the string input
```

`re.match("(.*)(is a)(.*)", input)` -> tries to match the string input with the substring "is a" anywhere in between or in either border.

`re.match("(?P.*) (?Pis a) (?P.*)", input)` -> same thing as before except no name was given. The name would've been given to each group had ?P been followed by <GROUPNAME>

`re.search("(I){1}(like){10,}(you){1,2}", input)` -> checks to see if the string input contains the word "I" exactly once, followed by "like" at least 10 times, followed by the word "you" once or twice.