

```
import glob
import string
import re
from pprint import pprint as pp


def part1(input):
    return re.search(' A{2,5} ',input)


def part2(input):
    return re.sub(r"-?[0-9]+\.[0-9]*", "float", input)


def part3(input):
    return re.subn(r"-?[0-9]+\.[0-9]*", "float", input)[1]


def part4(input):
    Sum = 0
    Match = re.findall(r"-?[0-9]+\.[0-9]*", input)
    for item in Match:
        Sum += float(item)
    return Sum / len(Match)


def part5(input):
    return re.sub("EE364", "EE461", input, 1 )
```

```
def part6(input):
```

```
    Match = re.match(r"([0-9]{1,3})\.([0-9]{1,3})\.([0-9]{1,3})\.([0-9]{1,3})$", input)
```

```
    if Match:
```

```
        for item in Match.group(1,2,3,4):
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```
            if int(item) > 255:
```

```
                return False
```

```
        return True
```

```
    return False
```

```
def part7(input):
```

```
    pass
```

```
    #re.search("e", input, re.I)
```

```
    #returns the location of e or E in a string
```

```
    #re.match("(.*)(is a)(.*)", input)
```

```
    #returns the location of "is a" inside s string
```

```
    #re.match("(?P.*)(?Pis a)(?P.*)", input)
```

```
    #error, does not do anything
```

```
    #re.search("(I){1}(like){10,}(you){1,2}", input)
```

```
    #finds one occurrences of I followed by at least 10 repetitions of "like" followed by 1 to 2 repetitions of you
```