Comprehensions

```
out = []
for word in lex:
    if word.endswith('py'):
        out.append(word[:-2])

lengths = set()
for word in lex:
    lengths.add(len(word))
```

```
out = [word[:-2] for word in lex
       if word.endswith('py')]



lengths = {len(word) for word in
lex}
```

Reduce In-Memory Buffering

```
', '.join([color.upper()
           for color in colors])

map(lambda x: int(x) ** 2,
    [line.strip() for line in
file])

sum([n ** 2 for n in range(1000)])
```

```
', '.join(color.upper()
          for color in colors)

map(lambda x: int(x) ** 2,
    (line.strip() for line in
file))

sum(n ** 2 for n in range(1000))
```