1 1 2 4 3 9 4 16

```
# Serialize to/from string
```

```
json.dumps                    # output == "{1:1, 2:4, 3:9, 4:16}"
```

```
json.loads                                                  # => {1:1, 2:4, 3:9, 4:16}
```

Serialize to/from file

```
with        'tmp.json'   'w'   as
```

json.dump

```
with open('tmp.json', 'r') as
```

json.load

```
# All variants support useful keyword arguments
```

```
                    indent=4  sort_keys=True  separators=(',', ': ')
```

`json` — JSON encoder and decoder

Similar module for CSV

```
squares = {1:1, 2:4, 3:9, 4:16}

# Serialize to/from string
output = json.dumps(squares)  # output == "{1:1, 2:4, 3:9, 4:16}"
json.loads(output)            # => {1:1, 2:4, 3:9, 4:16}

# Serialize to/from file
with open('tmp.json', 'w') as outfile:
    json.dump(squares, outfile)

with open('tmp.json', 'r') as infile:
    input = json.load(infile)

# All variants support useful keyword arguments
json.dumps(data, indent=4, sort_keys=True, separators=(',', ': '))
```

`random`

Generate pseudo-random numbers