interval-scheduling-in-progress

January 26, 2026

[1]:
```
import random
```

[9]:
```
random.sample([1,2,3,4,5], 2)
```

[9]:
```
[2, 1]
```

[14]:
```
# for this test, we'll model start times and end times as integers between 0␣
 ↪and 100
def random_request():
    return sorted(random.sample(range(100),2))
```

[23]:
```
def make_requests(n):
    # output: n random requests

    # longer way to do this
    # requests = []
    # for i in range(n):
    #     requests.append(random_request())
    # return requests

    # faster
    return [random_request() for i in range(n)]
```

[26]:
```
make_requests(5)
```

[26]:
```
[[37, 50], [5, 57], [13, 48], [9, 13], [52, 58]]
```

[27]:
```
def plot_requests(requests):
    # input: a list of requests
    # output: none
    # print an ascii plot of the requests
    for r in sorted(requests, key=lambda x: x[1]):
        print(" "*(r[0]) + "-"*(r[1]-r[0]))
```

[28]:
```
R = make_requests(5)
print(R)
plot_requests(R)
```

```
[[60, 68], [41, 52], [45, 76], [0, 70], [84, 88]]
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                                                            --------
----------------------------------------------------------------------
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```

[ ]:

```

```