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How to run

In this assignement, we stop all the routers manually, the **stop** method isn't called because it's a little complext to decide when we get the stable forwarding table we want and that part is not important to our routering algo.

All the screenshots are in the screenshots.zip. And In the Assignemnt6 Answer.pdf, you could see the explaination about screenshots.

If there're too many logs in console, you may want to use some command to store all the output logs into a file before start routers to avoid losing earliest logs.

Small Network

Case 1-1

1. Start all routers

```
python start_router.py config/small-1
python start_router.py config/small-2
python start_router.py config/small-3
```

- 2. Wait and check the logs on the console, when they are stable, ie, not chage for a while, typically which in 5 seconds, check the log for the forwarding tables.
- 3. Stop all the routers manually. Check the log in console.

Case 1-2

1. Start all routers

```
python start_router.py config/small-1
python start_router.py config/small-2
python start_router.py config/small-3
```

- 2. Wait and check the logs on the console, when they are stable, ie, not chage for a while, typically whthin 5 seconds.
- 3. Change the file config/small-1, in line 2, 2, 4 to 2, 60.
- 4. Wait and check the logs on the console, when they are stable, ie, not chage for a while, typically which in 5 seconds.
- 5. Change the file config/small-1, in line 2, 2, 60 to 2, 4.
- 6. Wait and check the logs on the console, when they are stable, ie, not chage for a while, typically whthin 5 seconds.
- 7. Stop all the routers manually. Check the log in console.

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Large Network

1. Start all routers

```
python start_router.py config/large-1
python start_router.py config/large-2
python start_router.py config/large-3
python start_router.py config/large-4
python start_router.py config/large-5
python start_router.py config/large-6
python start_router.py config/large-7
python start_router.py config/large-8
python start_router.py config/large-9
python start_router.py config/large-10
```

- 2. Wait and check the logs on the console, when they are stable, ie, not chage for a while, typically which in 5 seconds, check the log for the forwarding tables.
- 3. Stop all the routers manually. Check the log in console.