Computer network project test
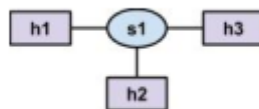
Before test

```
1  vagrant@vagrant:~$ cd sdn-code
2  vagrant@vagrant:~/sdn-code$ ryu-manager --observe-links shortest_paths.py
```

Test case 1: single 5

```
1  vagrant@vagrant:~/sdn-code$ sudo python run_mininet.py single 5
```

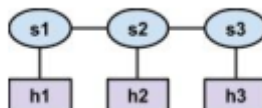```
1 mininet> net
2 mininet> pingall
3 mininet> link s1 h1 down //测试switch和host
4 mininet> pingall
5 mininet> link s1 h1 up
6 mininet> pingall
```



## Test case 2: linear 5

```
1 vagrant@vagrant:~/sdn-code$ sudo python run_mininet.py linear 3
```
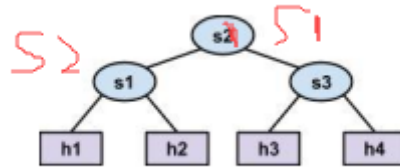
```
1 mininet> net
2 mininet> pingall
3 mininet> link s2 s3 down //测试switch和swtich
4 mininet> pingall
5 mininet> link s2 s3 up
```



## Test case 3: tree 2

```
1  vagrant@vagrant:~/sdn-code$ sudo python run_mininet.py tree 2
```

```
1  mininet> net
2  mininet> pingall
3  mininet> link s1 s3 down
4  mininet> h1 ping h2 -c 1
```
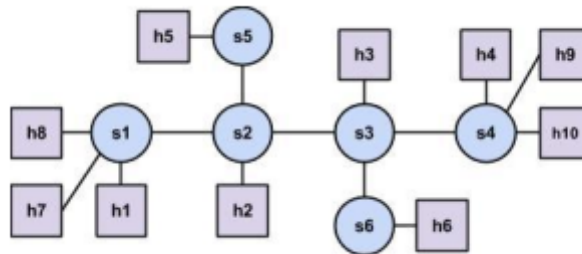
Test case 4: assign1

```
vagrant@vagrant:~/sdn-code$ sudo python run_mininet.py assign1
```

```
mininet> net
mininet> pingall
mininet> link s2 s3 down
mininet> link s5 s3 up //src and dst not connected: s5 s3
mininet> pingall
```
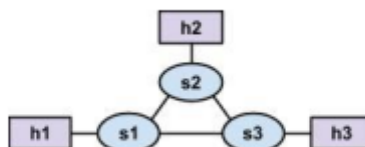

Test case 5: triangle

```
vagrant@vagrant:~/sdn-code$ sudo python run_mininet.py triangle
```

```
mininet> net
mininet> pingall
mininet> link s1 s3 down
mininet> h1 ping h3 -c 1
mininet> link s2 s3 down
mininet> h1 ping h3 -c 1
mininet> link s1 s3 up
mininet> h1 ping h3 -c 1
```
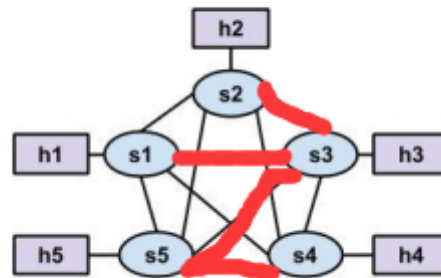

Test case 6: mesh 5

```
vagrant@vagrant:~/sdn-code$ sudo python run_mininet.py mesh 5
```

```
1   mininet> net
2   mininet> pingall
3   mininet> link s1 s2 down
4   mininet> link s1 s4 down
5   mininet> link s1 s5 down
6   mininet> link s2 s4 down
7   mininet> link s2 s5 down
8   mininet> link s3 s4 down
9   mininet> pingall
```


Test case 7: someloops

```
1   vagrant@vagrant:~/sdn-code$ sudo python run_mininet.py someloops
```

```
1   mininet> net
2   mininet> pingall
3   mininet> link s3 s4 down
4   mininet> link s4 s6 down
5   mininet> link s3 s6 down
6   mininet> pingall
7   mininet> s4 ping s3 -c 1
```