

Assignment6 Report – Yuanjie Yue

```
→ assignment6 python start_router.py config/small-2
```

ID	NextHop	Cost
1	1	0
ID	NextHop	Cost
1	1	0
2	2	4
ID	NextHop	Cost
1	1	0
2	2	4
3	3	1
ID	NextHop	Cost
1	1	0
2	3	6
3	3	1
ID	NextHop	Cost
1	1	0
2	3	8
3	3	1
ID	NextHop	Cost
1	1	0
2	3	10
3	3	1
ID	NextHop	Cost
1	1	0
2	3	12
3	3	1
ID	NextHop	Cost
1	1	0
2	3	14
3	3	1
ID	NextHop	Cost
1	1	0
2	3	16
3	3	1
ID	NextHop	Cost
1	1	0
2	3	18
3	3	1
ID	NextHop	Cost
1	1	0
2	3	20
3	3	1
ID	NextHop	Cost
1	1	0
2	3	22
3	3	1
ID	NextHop	Cost
1	1	0
2	3	24
3	3	1
ID	NextHop	Cost
1	1	0
2	3	26
3	3	1
ID	NextHop	Cost
1	1	0
2	3	28
3	3	1
ID	NextHop	Cost
1	1	0
2	3	30
3	3	1
ID	NextHop	Cost
1	1	0
2	3	32
3	3	1
ID	NextHop	Cost
1	1	0
2	3	34
3	3	1
ID	NextHop	Cost
1	1	0
2	3	36
3	3	1
ID	NextHop	Cost
1	1	0
2	3	38
3	3	1
ID	NextHop	Cost
1	1	0
2	3	40
3	3	1
ID	NextHop	Cost
1	1	0
2	3	42
3	3	1
ID	NextHop	Cost
1	1	0
2	3	44
3	3	1
ID	NextHop	Cost
1	1	0
2	3	46
3	3	1
ID	NextHop	Cost
1	1	0
2	3	48
3	3	1
ID	NextHop	Cost
1	1	0
2	3	50
3	3	1
ID	NextHop	Cost
1	1	0
2	3	51
3	3	1
ID	NextHop	Cost
1	1	0
2	2	4
3	3	1

Initial config

```
→ assignment6 python start_router.py config/small-2
```

ID	NextHop	Cost
2	2	0
ID	NextHop	Cost
2	2	0
1	1	4
ID	NextHop	Cost
2	2	0
1	1	4
3	3	50
ID	NextHop	Cost
2	2	0
1	1	4
3	1	5
ID	NextHop	Cost
2	2	0
1	3	51
3	3	50
ID	NextHop	Cost
2	2	0
1	1	4
3	1	5

Initial config

From 4 to 60

From 60 to 4.

Change the dist between 1 and 2 from 4 to 60.
As we could see that **"bad information travels slow"**.

```
→ assignment6 python start_router.py config/small-3
```

ID	NextHop	Cost
3	3	0
ID	NextHop	Cost
3	3	0
1	1	1
2	1	5
ID	NextHop	Cost
3	3	0
1	1	1
2	1	7
ID	NextHop	Cost
3	3	0
1	1	1
2	1	9
ID	NextHop	Cost
3	3	0
1	1	1
2	1	11
ID	NextHop	Cost
3	3	0
1	1	1
2	1	13
ID	NextHop	Cost
3	3	0
1	1	1
2	1	15
ID	NextHop	Cost
3	3	0
1	1	1
2	1	17
ID	NextHop	Cost
3	3	0
1	1	1
2	1	19
ID	NextHop	Cost
3	3	0
1	1	1
2	1	21
ID	NextHop	Cost
3	3	0
1	1	1
2	1	23
ID	NextHop	Cost
3	3	0
1	1	1
2	1	25
ID	NextHop	Cost
3	3	0
1	1	1
2	1	27
ID	NextHop	Cost
3	3	0
1	1	1
2	1	29
ID	NextHop	Cost
3	3	0
1	1	1
2	1	31
ID	NextHop	Cost
3	3	0
1	1	1
2	1	33
ID	NextHop	Cost
3	3	0
1	1	1
2	1	35
ID	NextHop	Cost
3	3	0
1	1	1
2	1	37
ID	NextHop	Cost
3	3	0
1	1	1
2	1	39
ID	NextHop	Cost
3	3	0
1	1	1
2	1	41
ID	NextHop	Cost
3	3	0
1	1	1
2	1	43
ID	NextHop	Cost
3	3	0
1	1	1
2	1	45
ID	NextHop	Cost
3	3	0
1	1	1
2	1	47
ID	NextHop	Cost
3	3	0
1	1	1
2	1	49
ID	NextHop	Cost
3	3	0
1	1	1
2	2	50
ID	NextHop	Cost
3	3	0
1	1	1
2	1	5

Change the dist between 1 and 2 from 60 back to 4
As we could see that **"good information travels fast"**.