Left terminal:

```
KeyboardInterrupt
→ assignment6 python start_router.py config/large-1
ID    NextHop Cost
1     1       0

ID    NextHop Cost
1     1       0
3     3       8

ID    NextHop Cost
1     1       0
3     3       8
6     6       12

ID    NextHop Cost
1     1       0
3     3       8
6     6       12
5     6       19
2     6       25
4     6       38

ID    NextHop Cost
1     1       0
3     3       8
6     6       12
5     6       19
2     6       25
4     6       38
7     6       30

ID    NextHop Cost
1     1       0
3     3       8
6     6       12
5     6       19
2     6       25
4     6       38
7     6       30
8     3       24

ID    NextHop Cost
1     1       0
3     3       8
6     6       12
5     6       19
2     6       25
4     3       33
7     6       30
8     3       24

ID    NextHop Cost
1     1       0
3     3       8
6     6       12
5     6       19
2     6       25
4     3       33
7     6       30
8     3       24
9     6       30

ID    NextHop Cost
1     1       0
3     3       8
6     6       12
5     6       19
2     6       25
4     3       33
7     6       30
8     3       24
9     6       30
10    10      17

ID    NextHop Cost
1     1       0
3     3       8
6     6       12
5     6       19
2     6       25
4     3       33
7     10      31
8     3       24
9     6       30
10    10      17

ID    NextHop Cost
1     1       0
3     3       8
6     6       12
5     6       19
2     6       25
4     3       33
7     6       30
8     3       24
9     6       30
10    10      17
```

Center annotations:

Initial Config, Successfully converge.

Change the dist between 2 and 7 from 5 to 100.

Successfully Converge.

As we could see that **"bad information travels slow"**.

Change the dist between 2 and 7 from 100 back to 5.

Successfully Converge.

As we could see that **"good information travels fast"**.

Assignment6 Report – Yuanjie Yue

```
Last login: Sun Dec  8 17:21:31 on ttys001
➜  ~ cd Downloads/neu/cs5700_seattle/assignments/assi
➜  assignment6 python start_router.py config/large-3
ID        NextHop Cost
3         3       0

ID        NextHop Cost
3         3       0
1         1       8

ID        NextHop Cost
3         3       0
1         1       8
6         1       20

ID        NextHop Cost
3         3       0
1         1       8
6         1       20
5         1       27
2         1       33
4         1       46

ID        NextHop Cost
3         3       0
1         1       8
6         1       20
5         1       27
2         1       33
4         1       46
7         1       38

ID        NextHop Cost
3         3       0
1         1       8
6         1       20
5         1       27
2         1       33
4         1       46
7         1       38
8         8       16

ID        NextHop Cost
3         3       0
1         1       8
6         1       20
5         1       27
2         1       33
4         8       25
7         1       38
8         8       16

ID        NextHop Cost
3         3       0
1         1       8
6         1       20
5         1       27
2         1       33
4         8       25
7         1       38
8         8       16
9         8       32

ID        NextHop Cost
3         3       0
1         1       8
6         1       20
5         1       27
2         1       33
4         8       25
7         1       38
8         8       16
9         8       32
10        10      13

ID        NextHop Cost
3         3       0
1         1       8
6         1       20
5         1       27
2         10      32
4         8       25
7         10      27
8         8       16
9         8       32
10        10      13

ID        NextHop Cost
3         3       0
1         1       8
6         1       20
5         1       27
2         1       33
4         8       25
7         10      27
8         8       16
9         8       32
10        10      13

ID        NextHop Cost
3         3       0
1         1       8
6         1       20
5         1       27
2         10      32
4         8       25
7         10      27
8         8       16
9         8       32
10        10      13
```

Successfully converge.

```
Last login: Sun Dec  8 17:21:32 on ttys002
➜  ~ cd Downloads/neu/cs5700_seattle/assignments/assig
➜  assignment6 python start_router.py config/large-4
ID        NextHop Cost
4         4       0

ID        NextHop Cost
4         4       0
2         2       13

ID        NextHop Cost
4         4       0
2         2       13
5         2       19

ID        NextHop Cost
4         4       0
2         2       13
5         2       19
6         2       26

ID        NextHop Cost
4         4       0
2         2       13
5         2       19
6         2       26
1         2       38
3         2       46

ID        NextHop Cost
4         4       0
2         2       13
5         2       19
6         2       26
1         2       38
3         2       46
7         2       18

ID        NextHop Cost
4         4       0
2         2       13
5         2       19
6         2       26
1         2       38
3         2       46
7         2       18
8         8       9

ID        NextHop Cost
4         4       0
2         2       13
5         2       19
6         2       26
1         8       33
3         8       25
7         2       18
8         8       9

ID        NextHop Cost
4         4       0
2         2       13
5         2       19
6         2       26
1         8       33
3         8       25
7         2       18
8         8       9
9         9       7

ID        NextHop Cost
4         4       0
2         2       13
5         9       18
6         9       25
1         8       33
3         8       25
7         2       18
8         8       9
9         9       7

ID        NextHop Cost
4         4       0
2         2       13
5         9       18
6         9       25
1         8       33
3         8       25
7         2       18
8         8       9
9         9       7
10        8       21

ID        NextHop Cost
4         4       0
2         2       13
5         9       18
6         9       25
1         8       33
3         8       25
7         8       29
8         8       9
9         9       7
10        8       21

ID        NextHop Cost
4         4       0
2         2       13
5         9       18
6         9       25
1         8       33
3         8       25
7         8       30
8         8       9
9         9       7
10        8       21

ID        NextHop Cost
4         4       0
2         2       13
5         9       18
6         9       25
1         8       33
3         8       25
7         8       35
8         8       9
9         9       7
10        8       21

ID        NextHop Cost
4         4       0
2         2       13
5         9       18
6         9       25
1         8       33
3         8       25
7         2       18
8         8       9
9         9       7
10        8       21
```

Successfully converge.

```
Last login: Sun Dec  8 17:21:33 on ttys003
➜  ~ cd Downloads/neu/cs5700_seattle/assignments/assi
➜  assignment6 python start_router.py config/large-5
ID        NextHop Cost
5         5       0

ID        NextHop Cost
5         5       0
2         2       6
4         2       19

ID        NextHop Cost
5         5       0
2         2       6
4         2       19
6         6       7

ID        NextHop Cost
5         5       0
2         2       6
4         2       19
6         6       7
1         6       19
3         6       27

ID        NextHop Cost
5         5       0
2         2       6
4         2       19
6         6       7
1         6       19
3         6       27
7         2       11

ID        NextHop Cost
5         5       0
2         2       6
4         2       19
6         6       7
1         6       19
3         6       27
7         2       11
8         2       43

ID        NextHop Cost
5         5       0
2         2       6
4         2       19
6         6       7
1         6       19
3         6       27
7         2       11
8         2       28

ID        NextHop Cost
5         5       0
2         2       6
4         9       18
6         6       7
1         6       19
3         6       27
7         2       11
8         2       28
9         9       11

ID        NextHop Cost
5         5       0
2         2       6
4         9       18
6         6       7
1         6       19
3         6       27
7         2       11
8         9       27
9         9       11
10        6       36

ID        NextHop Cost
5         5       0
2         2       6
4         9       18
6         6       7
1         6       19
3         6       27
7         2       23
8         9       27
9         9       11
10        6       36

ID        NextHop Cost
5         5       0
2         2       6
4         9       18
6         6       7
1         6       19
3         6       35
7         9       27
8         9       27
9         9       11
10        6       36

ID        NextHop Cost
5         5       0
2         2       6
4         9       18
6         6       7
1         6       19
3         6       27
7         2       47
8         9       27
9         9       11
10        6       36

ID        NextHop Cost
5         5       0
2         2       6
4         9       18
6         6       7
1         6       19
3         6       27
7         2       45
8         9       27
9         9       11
10        6       36

ID        NextHop Cost
5         5       0
2         2       6
4         9       18
6         6       7
1         6       19
3         6       27
7         2       50
8         9       27
9         9       11
10        6       36

ID        NextHop Cost
5         5       0
2         2       6
4         9       18
6         6       7
1         6       19
3         6       27
7         2       11
8         9       27
9         9       11
10        2       25
```

Successfully converge.

Initial Config, Successfully converge.

Change the dist between 2 and 7 from 5 to 100.

Successfully Converge.

As we could see that **"bad information travels slow"**.

Change the dist between 2 and 7 from 100 back to 5.

Successfully Converge.

As we could see that **"good information travels fast"**.

Assignment6 Report – Yuanjie Yue

Terminal 1 (ttys006):

```
Last login: Sun Dec  8 17:21:35 on ttys006
➜  ~ cd Downloads/neu/cs5700_seattle/assignments/assi
➜  assignment6 python start_router.py config/large-8
ID      NextHop Cost
8       8       0

ID      NextHop Cost
8       8       0
3       3       16
1       3       24
6       3       36
5       3       43
2       3       49
4       3       62
7       3       54

ID      NextHop Cost
8       8       0
3       3       16
1       3       24
6       4       35
5       4       28
2       4       22
4       4       9
7       4       27

ID      NextHop Cost
8       8       0
3       3       16
1       3       24
6       4       35
5       4       28
2       4       22
4       4       9
7       4       27
9       4       16

ID      NextHop Cost
8       8       0
3       3       16
1       3       24
6       4       34
5       4       27
2       4       22
4       4       9
7       4       27
9       4       16

ID      NextHop Cost
8       8       0
3       3       16
1       3       24
6       4       34
5       4       27
2       4       22
4       4       9
7       4       27
9       4       16
10      10      12

ID      NextHop Cost
8       8       0
3       3       16
1       3       24
6       4       34
5       4       27
2       4       22
4       4       9
7       10      26
9       4       16
10      10      12
```

Successfully converge.

Terminal 2 (ttys007):

```
Last login: Sun Dec  8 17:21:36 on ttys007
➜  ~ cd Downloads/neu/cs5700_seattle/assignments/assi
➜  assignment6 python start_router.py config/large-9
ID      NextHop Cost
9       9       0

ID      NextHop Cost
9       9       0
4       4       7
2       4       20
5       4       26
6       4       33
1       4       40
3       4       32
7       4       25
8       4       16

ID      NextHop Cost
9       9       0
4       4       7
2       5       17
5       5       11
6       5       18
1       5       30
3       4       32
7       5       22
8       4       16

ID      NextHop Cost
9       9       0
4       4       7
2       5       17
5       5       11
6       5       18
1       5       30
3       4       32
7       5       22
8       4       16
10      5       47

ID      NextHop Cost
9       9       0
4       4       7
2       5       17
5       5       11
6       5       18
1       5       30
3       4       32
7       5       22
8       4       16
10      4       28

ID      NextHop Cost
9       9       0
4       4       7
2       5       17
5       5       11
6       5       18
1       5       30
3       4       32
7       5       25
8       4       16
10      4       28

ID      NextHop Cost
9       9       0
4       4       7
2       5       17
5       5       11
6       5       18
1       5       30
3       4       32
7       5       34
8       4       16
10      4       28

ID      NextHop Cost
9       9       0
4       4       7
2       5       17
5       5       11
6       5       18
1       5       30
3       4       32
7       4       36
8       4       16
10      4       28

ID      NextHop Cost
9       9       0
4       4       7
2       5       17
5       5       11
6       5       18
1       5       30
3       4       32
7       4       37
8       4       16
10      4       28

ID      NextHop Cost
9       9       0
4       4       7
2       5       17
5       5       11
6       5       18
1       5       30
3       4       32
7       4       42
8       4       16
10      4       28

ID      NextHop Cost
9       9       0
4       4       7
2       5       17
5       5       11
6       5       18
1       5       30
3       4       32
7       5       22
8       4       16
10      4       28
```

Successfully converge.

Terminal 3:

```
Last login: Sun Dec  8 17:
➜  ~ cd Downloads/neu/cs57
➜  assignment6 python star
ID      NextHop Cost
10      10      0

ID      NextHop Cost
10      10      0
1       1       17
3       1       25
6       1       29
5       1       36
2       1       42
4       1       50
7       1       47
8       1       41
9       1       47

ID      NextHop Cost
10      10      0
1       1       17
3       3       13
6       1       29
5       1       36
2       1       42
4       3       38
7       1       47
8       3       29
9       3       45

ID      NextHop Cost
10      10      0
1       1       17
3       3       13
6       1       29
5       1       36
2       8       34
4       8       21
7       8       39
8       8       12
9       8       28

ID      NextHop Cost
10      10      0
1       1       17
3       3       13
6       1       29
5       7       25
2       7       19
4       8       21
7       7       14
8       8       12
9       8       28

ID      NextHop Cost
10      10      0
1       1       17
3       3       13
6       1       29
5       1       36
2       8       34
4       8       21
7       7       14
8       8       12
9       8       28

ID      NextHop Cost
10      10      0
1       1       17
3       3       13
6       1       29
5       7       25
2       7       19
4       8       21
7       7       14
8       8       12
9       8       28
```

Successfully converge.