

```
OPTIONS --->
    printTests true
    printTable true
    srtTraversal true
    printOptions true
```

```
<--- OPTIONS
```

```
SUCC --->
```

```
1 2
1 3
1 4
2 1
2 4
2 5
3 1
3 4
3 6
4 1
4 2
4 3
4 5
4 6
4 7
5 2
5 4
5 7
6 3
6 4
6 7
7 4
7 5
7 6
```

```
<--- SUCC
```

```
WEIGHT --->
```

```
TRANS: 1 2 WEIGHT: 2
TRANS: 1 3 WEIGHT: 4
TRANS: 1 4 WEIGHT: 1
TRANS: 2 1 WEIGHT: 2
TRANS: 2 4 WEIGHT: 3
TRANS: 2 5 WEIGHT: 10
TRANS: 3 1 WEIGHT: 4
TRANS: 3 4 WEIGHT: 2
TRANS: 3 6 WEIGHT: 5
TRANS: 4 1 WEIGHT: 1
TRANS: 4 2 WEIGHT: 3
TRANS: 4 3 WEIGHT: 2
TRANS: 4 5 WEIGHT: 7
TRANS: 4 6 WEIGHT: 8
TRANS: 4 7 WEIGHT: 4
TRANS: 5 2 WEIGHT: 10
TRANS: 5 4 WEIGHT: 7
TRANS: 5 7 WEIGHT: 6
TRANS: 6 3 WEIGHT: 5
TRANS: 6 4 WEIGHT: 8
TRANS: 6 7 WEIGHT: 1
TRANS: 7 4 WEIGHT: 4
TRANS: 7 5 WEIGHT: 6
TRANS: 7 6 WEIGHT: 1
```

<--- WEIGHT

PRIM MST

CHILD: 2

CHILD: 3

CHILD: 4

FRONTIER --->

TRANS: 1 4 VAL: 1

TRANS: 1 3 VAL: 4

TRANS: 1 2 VAL: 2

<--- FRONTIER

PRIM MST: 1

VISITING TRANS: 1 4 W: 1

MST TRANS: 1 4 W: 1

CHILD: 1

ALREADY VISITED CHILD: 1

CHILD: 2

CHILD: 3

CHILD: 5

CHILD: 6

CHILD: 7

FRONTIER --->

TRANS: 1 2 VAL: 2

TRANS: 4 3 VAL: 2

TRANS: 4 2 VAL: 3

TRANS: 1 3 VAL: 4

TRANS: 4 5 VAL: 7

TRANS: 4 6 VAL: 8

TRANS: 4 7 VAL: 4

<--- FRONTIER

VISITING TRANS: 1 2 W: 2

MST TRANS: 1 2 W: 2

CHILD: 1

ALREADY VISITED CHILD: 1

CHILD: 4

ALREADY VISITED CHILD: 4

CHILD: 5

FRONTIER --->

TRANS: 4 3 VAL: 2

TRANS: 4 7 VAL: 4

TRANS: 4 2 VAL: 3

TRANS: 1 3 VAL: 4

TRANS: 4 5 VAL: 7

TRANS: 4 6 VAL: 8

TRANS: 2 5 VAL: 10

<--- FRONTIER

VISITING TRANS: 4 3 W: 2

MST TRANS: 4 3 W: 2

CHILD: 1

ALREADY VISITED CHILD: 1

CHILD: 4

ALREADY VISITED CHILD: 4

CHILD: 6

FRONTIER --->

TRANS: 4 2 VAL: 3

TRANS: 4 7 VAL: 4

TRANS: 3 6 VAL: 5

TRANS: 1 3 VAL: 4
TRANS: 4 5 VAL: 7
TRANS: 2 5 VAL: 10
TRANS: 4 6 VAL: 8
<--- FRONTIER

VISITING TRANS: 4 2 W: 3
ALREADY VISITED END NODE: 2
VISITING TRANS: 4 7 W: 4
MST TRANS: 4 7 W: 4
CHILD: 4
ALREADY VISITED CHILD: 4
CHILD: 5
CHILD: 6
FRONTIER --->
TRANS: 7 6 VAL: 1
TRANS: 4 5 VAL: 7
TRANS: 1 3 VAL: 4
TRANS: 4 6 VAL: 8
TRANS: 2 5 VAL: 10
TRANS: 7 5 VAL: 6
TRANS: 3 6 VAL: 5
<--- FRONTIER

VISITING TRANS: 7 6 W: 1
MST TRANS: 7 6 W: 1
CHILD: 3
ALREADY VISITED CHILD: 3
CHILD: 4
ALREADY VISITED CHILD: 4
CHILD: 7
ALREADY VISITED CHILD: 7
FRONTIER --->
TRANS: 1 3 VAL: 4
TRANS: 4 5 VAL: 7
TRANS: 3 6 VAL: 5
TRANS: 4 6 VAL: 8
TRANS: 2 5 VAL: 10
TRANS: 7 5 VAL: 6
<--- FRONTIER

VISITING TRANS: 1 3 W: 4
ALREADY VISITED END NODE: 3
VISITING TRANS: 3 6 W: 5
ALREADY VISITED END NODE: 6
VISITING TRANS: 7 5 W: 6
MST TRANS: 7 5 W: 6
CHILD: 2
ALREADY VISITED CHILD: 2
CHILD: 4
ALREADY VISITED CHILD: 4
CHILD: 7
ALREADY VISITED CHILD: 7
FRONTIER --->
TRANS: 4 5 VAL: 7
TRANS: 4 6 VAL: 8
TRANS: 2 5 VAL: 10
<--- FRONTIER

VISITING TRANS: 4 5 W: 7
ALREADY VISITED END NODE: 5

```
VISITING TRANS: 4 6 W: 8
    ALREADY VISITED END NODE: 6
VISITING TRANS: 2 5 W: 10
    ALREADY VISITED END NODE: 5
PRIM MST --->
    COST: 16
<--- PRIM MST
```

```
MST --->
EDGE: (2 1) W: 2
EDGE: (3 4) W: 2
EDGE: (4 1) W: 1
EDGE: (5 7) W: 6
EDGE: (6 7) W: 1
EDGE: (7 4) W: 4
<--- MST
```

Normal termination!