General Syntax:

Example:

```
./setdest -n 20 -p 2.0 -s 10.0 -t 200 -x 500 -y 500 > scen-20-test
```

TRACE FILE FORMAT:

The format of a trace string is shown below:

```
pkt
                      pkt
           from
                                             src
                                                  dst
                                                            pkt
event
      time
                                 flags
                                       fid
r : receive (at to node)
                                    arc addr : node.port (3.0)
+ : enqueue (at queue)
                                    dst addr : node.port (0.0)

    dequeue (at queue)

d : drop
            (at queue)
        r 1.3556 3 2 ack 40 ----- 1 3.0 0.0 15 201
        + 1.3556 2 O ack 40 ----- 1 3.0 0.0 15 201
        - 1.3556 2 O ack 40 ----- 1 3.0 0.0 15 201
        r 1.35576 0 2 tcp 1000 ----- 1 0.0 3.0 29 199
        + 1.35576 2 3 tcp 1000 ----- 1 0.0 3.0 29 199
        d 1.35576 2 3 top 1000 ----- 1 0.0 3.0 29 199
        + 1.356 1 2 cbr 1000 ----- 2 1.0 3.1 157 207
        - 1.356 1 2 cbr 1000 ----- 2 1.0 3.1 157 207
```

where 12 fields of the trace string are as follows.

- 1. Type Identifier:
 - "+": a packet enque event
 - "-": a packet deque event
 - "r": a packet reception event
 - "d": a packet drop (e.g., sent to dropHead_) event
 - "c": a packet collision at the MAC level
- 2. Time: at which the packet tracing string is created.
- 3-4. Source Node and Destination Node: denote the IDs of the source and the destination nodes of the tracing object.

- 5. Packet Name: Name of the packet type
- 6. Packet Size: Size of the packet in bytes.
- 7. Flags: A 7-digit flag string
 - "-": disable
 - 1st = "E": ECN (Explicit Congestion Notification) echo is enabled.
 - 2nd = "P": the priority in the IP header is enabled.
 - 3rd : Not in use
 - 4th = "A": Congestion action
 - 5th = "E": Congestion has occurred.
 - 6th = "F": The TCP fast start is used.
 - 7th = "N": Explicit Congestion Notification (ECN) is on.
- 8. Flow ID
- 9-10. Source Address and Destination Address: the format of these two fields is "a.b", where "a" is the address and "b" is the port.
- 11. Sequence Number
- 12. Packet Unique ID