

Packet

```
+content: String
+fromID: int
+id: int
+originatorID: int
+path: []
+toID: int
+type: DSRMessageType
+from_str(packetStr: String): Packet
```

RouteCache

```
- __edge_list: [[]]
- __me: int
+get_path(self: RouteCache, toID: int)
+offer_rout(self: RouteCache, route: ??): void
+remove_ink(self: RouteCache, link: ??): void
```

DSRMessageType

```
+ACK: int = 5
+ERROR: int = 3
+REPLY: int = 2
+REQUEST: int = 1
+SEND: int = 4
```

DSR

```
+network: ??
+next_packet_id: int
- __awaiting_acknowledgement_buffer: []
+ID: ??
- __done_buffer: []
- __receive_queue: []
- __route_cache: RouteCache
- __seen: ??
- __send_buffer: []
- __send_queue: []
+make_packet(self: DSR, type: DSRMessageType, path: [], contents: String): Packet
+make_packet_o(self: DSR, type: DSRMessageType, path: [], contents: String, originator: int): Packet
+receive_packet(self: DSR, pkt: Packet): void
+receive_packet_ori(self: DSR, pkt: Packet): void
+send_message(self: DSR, contents: String, toID: int): void
+pop_messages(self: DSR): []
+update(self: DSR): void
- __add_to_ack_buffer(self: DSR, pkt: Packet): void
- __check_ack_buffer(self: DSR): void
- __network_broadcast(self: DSR, pkt: Packet): void
- __network_sendto(self: DSR, pkt: Packet, toID: int): void
- __remove_from_send_buffer(self: DSR, ID: int): String
- __route_discover(self: DSR, msg: String, toID: int): void
- __route_error(self: DSR, msg: String): void
- __route_reply(self: DSR, msg: String): void
- __route_request(self: DSR, msg: String): void
- __route_send(self: DSR, msg: String): void
```