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```

```
// mapping to an array of structs
mapping(address => Order[]) ordersByAddress;

// mapping an id to bool
mapping(uint256 => bool) allowedIds;

// mapping in a struct
struct Person {
    mapping(uint256 => Vote) proposalVotes;
}
```



Be Careful With Nested Mappings in Structs!

```
ſĊ
contract X {
  struct Proposal {
    bytes data;
    address target;
    mapping(address => bool) votes;
  }
  Proposal[] proposals;
  function newProposal(bytes memory data, address target) external {
    // A Struct containing a (nested) mapping cannot be constructed.
    // Proposal memory proposal = Proposal(data, target);
    // V build it in storage first, then assign fields
    Proposal storage proposal = proposals.push();
    proposal.data = data;
    proposal.target = target;
  }
}
```

Implementation

```
contract X {
  mapping(address => bool) isMember; // base slot 0x0

function join() external {
    // SSTORE(keccak256(msg.sender + 0x0), true)
    isMember[msg.sender] = true;
}

function belongs() external view returns(bool) {
```

```
// SLOAD(keccak256(msg.sender + 0x0))
return isMember[msg.sender];
}
```