## Append:

## Append.txt

## **Store and Environment:**

```
// From the information of the store, when we pass L3: (7|(8|(9|(10|nil)))) into Reverse,
// it is doing:
// 1. {Append {Reverse [8,9,10]} [7]} -----> {Append [10,9,8] [7]} -----> [10,9,8,7] (final result)
// 2. {Reverse [8,9,10]} ----> {Append {Reverse [9,10]} [8]} -----> {Append [10,9] [8]}
// 3. {Reverse [9,10]} ----> {Append {Reverse [10]} [9]} -----> [10]
// 4. {Reverse [10]} ----> {Append {Reverse []} [10]} -----> [10]
```

## Append\_diff:

```
append_diff.txt append_diff(Store and Environment).tx

// From the information of the store, when we pass [4,3,2,1] into Reverse

// {Reverse [4,3,2,1]} -----> {ReverseD [4,3,2,1] Out []} -----> Return [1,2,3,4]

// {ReverseD [4,3,2,1] Out []} -----> {ReverseD [3,2,1] Out [4]}

// {ReverseD [3,2,1] Out [4]} -----> {ReverseD [2,1] Out [3,4]}

// {ReverseD [2,1] Out [3,4]} -----> {ReverseD [1] Out [2,3,4]}

// {ReverseD [1] Out [2,3,4]} -----> for the [] case, ReverseD bound [1,2,3,4] to Out, Out = [1,2,3,4]

// {Return [1,2,3,4]}
```

Reverse with size of 6: