

Doubly Linked Lists

Head N_1 N_2 N_3 N_4

NULL \leftarrow [23] \leftrightarrow [34] \leftrightarrow [56] \leftrightarrow [52] \rightarrow NULL

prev data next
p_{tr} int p_{tr}

// Create nodes
struct Node * $N_1 = (\text{struct Node} *) \text{malloc}(-);$
 N_2
 N_3
 N_4

struct Node {
int data;
✓ \rightarrow struct Node * prev;
struct Node * next;
}

// Link nodes
 $N_1 \rightarrow \text{next} = N_2;$
 $N_1 \rightarrow \text{prev} = \text{NULL};$