

## Task 9: Doubly Linkes Lists

- Convert the Linked List Programm from The Exercise ([https://jkrbs.github.io/c\\_lessons/task\\_solution\\_sources/intermediate\\_5a\\_linked\\_list\\_insertion.c](https://jkrbs.github.io/c_lessons/task_solution_sources/intermediate_5a_linked_list_insertion.c)) into a doubly linked list.
- Add a `list_print_backwards` method that prints the list from back to front
- Bonus: Can you write `list_print_backwards` for the singly linked list?

## Task 9: Hints

- The new `struct list_node` could look like this:

```
1 typedef struct list_node {
2     int value;
3     struct list_node* next;
4     struct list_node* previous;
5 } list_node;
```

- `previous` of the first node is `NULL`
- `next` of the last node is `NULL`
- If you forgot how the pointers have to point, look at the slides again, maybe they can help.
- Bonus Hint: Recursion :).