
Reverse List

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Consider the following `struct` for a doubly linked list.

```
struct list_node
{
    int m_value;
    list_node * m_previous = nullptr;
    list_node * m_next = nullptr;
};
```

Implement the function

```
list_node * reverse ( list_node * head );
```

that reverses *in-place* the given list, without dynamic memory allocations, and returns a pointer to its new head.

Observation

You only need to submit the required classes; your main program will be ignored. Strictly obey the type definitions of the statement.

Problem information

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