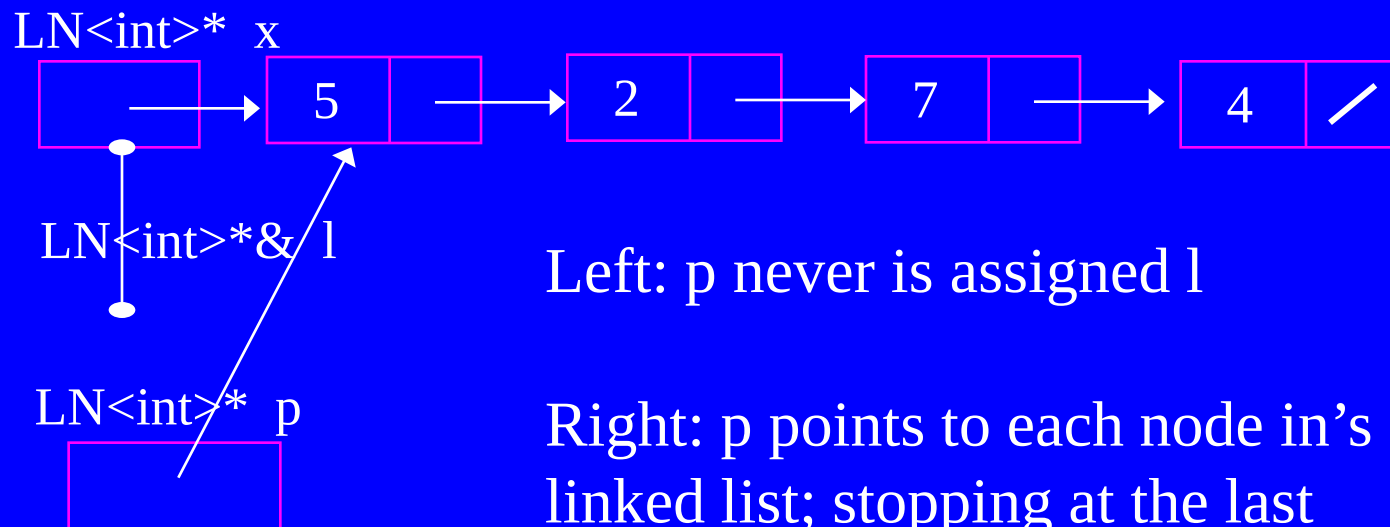
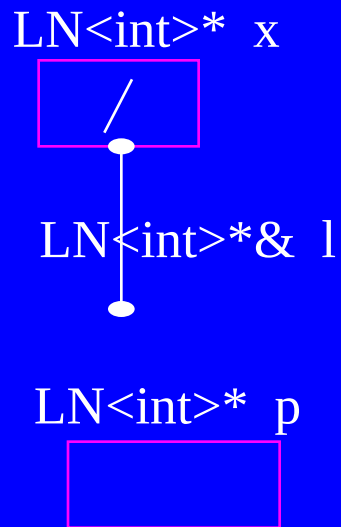


```

template<class T>
void add_rear(LN<T>*& l, T value) {
    if (l == nullptr)
        l = new LN<T>(value);
    else
        for (LN<T>* p = l; /*see body for termination*/; p = p->next)
            if (p->next == nullptr) {
                p->next = new LN<T>(value);
                break;
            }
}

```

Example: add_rear(x,10);

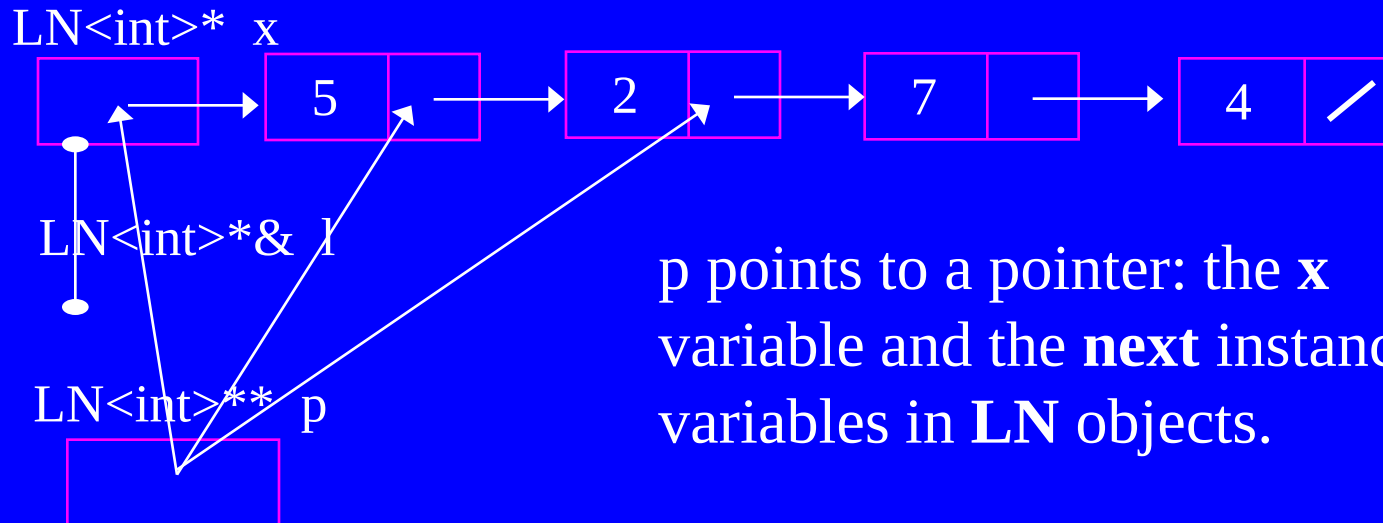


```

template<class T>
void remove_ptp (LN<T>*& l, T to_remove) {
    for (LN<T>** p =&l; (*p) != nullptr; p = &((*p)->next))
        if ((*p)->value == to_remove) {
            LN<T>* to_delete = *p;
            (*p) = (*p)->next;
            delete to_delete;
            break;
        }
}

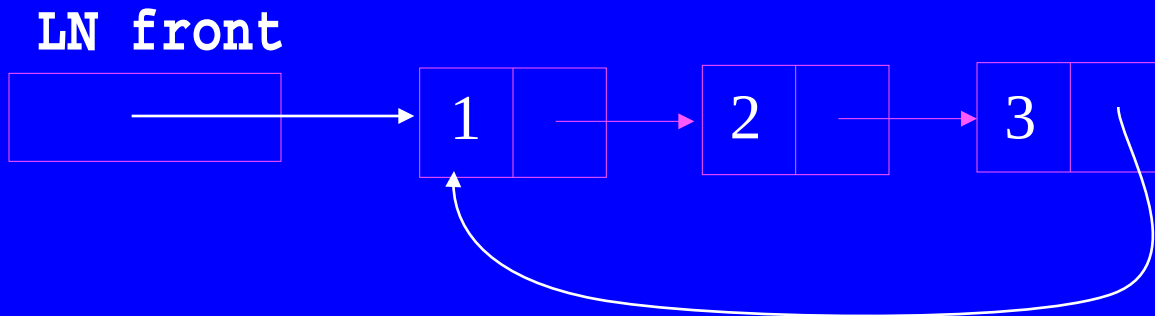
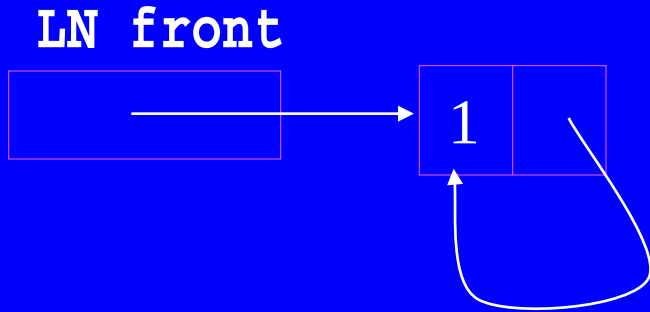
```

Example: `remove_ptp(x,7);`

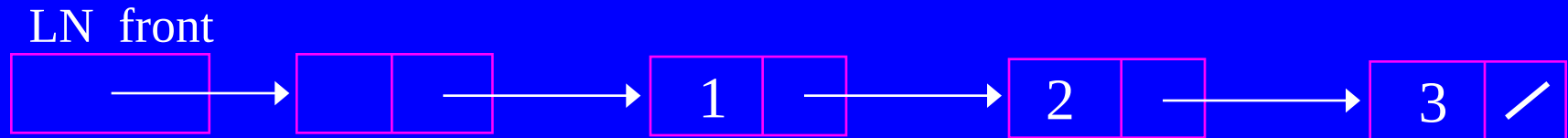
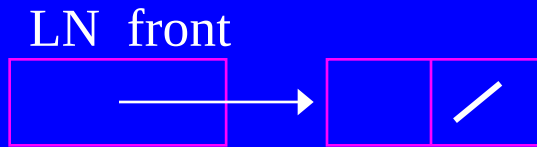


`p` points to a pointer: the **x** variable and the **next** instance variables in **LN** objects.

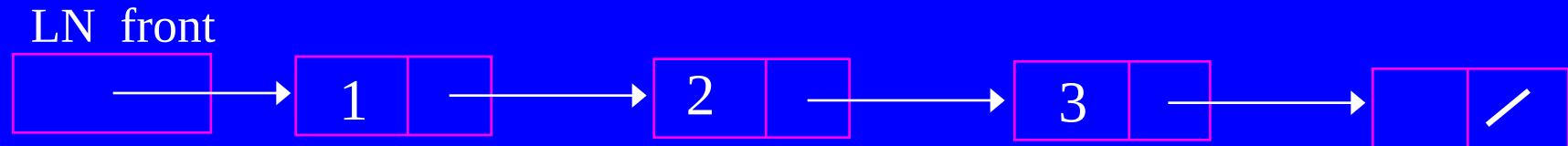
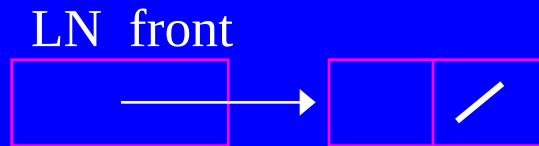
Circular Linked Lists



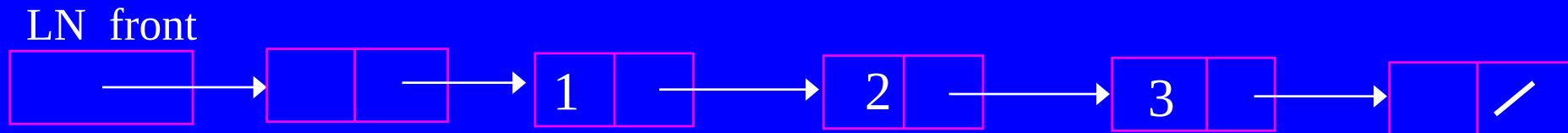
Header Linked Lists



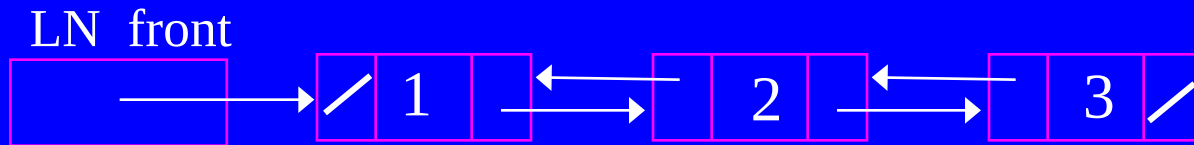
Trailer Linked Lists



Header-Trailer Linked Lists



Doubly-Linked Lists



Doubly-Linked Header-Trailer Lists

