

Singly-Linked Lists are Common for Unordered Groups

The data structure shown

- is called a **singly-linked list**
- (or, frequently, just a **linked list**).
- Singly-linked lists are usually used when order is not important.

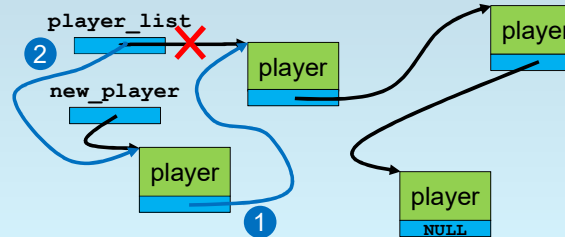
How do we insert into a linked list?

- Specifically, **where should we insert** a new element: **at the start, or the end?**

Insert at the start: it's faster.

Inserting into a Singly-Linked List Requires Two Changes

Make two changes. In what order?



Correct Ordering of Changes is Important

First, change the **next** field of the new player.
Otherwise, the old list is lost!

```
new_player->next = player_list;
player_list = new_player;
```

That's all.

How Can We Remove Player *p* from the List?

Need to change pointer (link) marked in blue.

