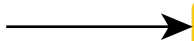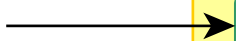void *parent_pointer → struct user_object {
    ...

    struct list_head {
        struct list_head *next;
        struct list_head *prev;
    } entry;

    ...
};

void *member_pointer → struct list_head { ... } entry;

offsetof(struct user_object, entry)

parent_pointer = container_of(member_pointer, struct user_object, entry);