Moodle theme: Information Representation
Moodle: Linked Lists

Q: How do we need to change

```c
struct person {char *name; int age;};
struct person {char *name; int age;
    struct person *next;};
```

Q: How do we declare and initialise the list to be empty?

```c
struct person *peoplelist = NULL;
```
Create and initialise new “person”,
and insert at start of list, setting “new_start”

new_person = (struct person*) malloc (sizeof(struct person));
if (new_person == NULL) . . .
new_person->name = name4;
new_person->age = age4;
new_person->next = old_start;
new_start = new_person;
Implementation

Q: If the current list is empty?

    if (list==NULL)
        list= new_person;
    else . . .

Q: If it isn’t empty, we need to find the last item in the list and then?

    last_item->next= new_person;

Q: How to find the last item in the list?

    loop down the list until (list_item->next==NULL)