Project INT1

- A list server maintains a list of email addresses.
- An email destined for the server will be replicated for and forwarded to all addresses in the list
- This is one simple way to do **group communications**.

Project Mission

- You implement the routine

```
void list_server (
  message* incoming_message,
  host_state* this_host)
```

  in file `lstserv.cpp`.

- When the text field of `incoming_message` contains "subscribe," add the `source_net` and `source_node` of the message to the end of the array `list_server_addresses` and update `server_list_count` accordingly.

Message Structures

```
typedef struct {
  byte size;
  byte source_net, source_node;
  byte dest_net, dest_node;
  byte message_type;
  char text[MAX_MSG_SIZE];
} message;
typedef struct {
  byte net, host;} email_address;
email_address list_server_addresses[10];
```


- Otherwise, replicate `incoming_message` to all addresses in `list_server_addresses`.
  - The forwarding of emails is achieved by calling the `send_email()` routine.
- Read `nw.h` for structures and function prototypes not described here.
- To compile, `cwkb INT1`
- For submission, upload two files: `lstserv.cpp` and `diskout.txt`