

Laboratórios de informática III

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Guião 2 - Exercício

1 Files

commands.c
commands.h
deque.c
deque.h
input.txt
LaTeX
main.c
Makefile

2 Makefile

```
CC = gcc
CFLAGS = -Wall -O2
LIBS = -lm
OBJS = main.o deque.o commands.o
TARGET = main
ARGS = input.txt

$(TARGET): $(OBJS)
    $(CC) $(CFLAGS) -o $@ $^ $(LIBS)

run: $(TARGET)
    ./main $(ARGS)

clean:
    rm -f $(TARGET) $(OBJS)
```

3 Structs

```
// commands.h
typedef struct cmd {
    char *command;
    int *args; // NULL se nao houver
    int nargs; // Numero de argumentos
} Cmd;

// deque.h
typedef struct node {
    void *data;
    struct node *prev;
    struct node *next;
} Node;

typedef struct deque {
    int size;
    Node *first;
    Node *last;
    bool reversed;
} Deque;
```
