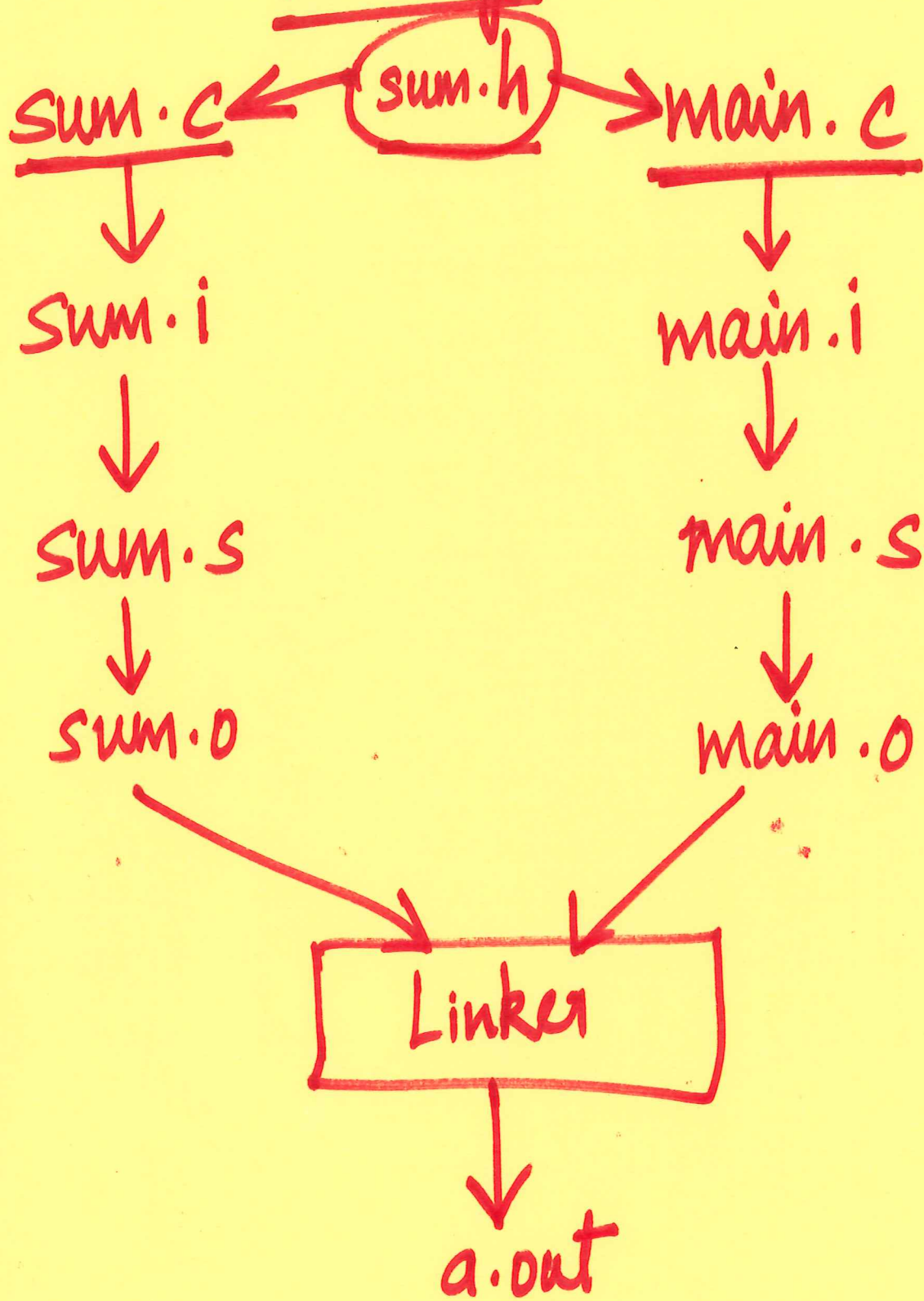


Linking



sum.c

```
extern int n;
```

```
n++;
```

↓
declaration
ONLY

main.c

```
int n;
```

(global variable)

fact.c

```
int n = 0;
```

(strong symbol)

```
int n = 1;
```

1. declaration.
2. definition.
3. initialization.

```
int n;
```

decl.
&
def.

sum.c

extern int n;

sum()

{

n++;

}

main.c

int n = 1;

sum();

n = ?

n = 2

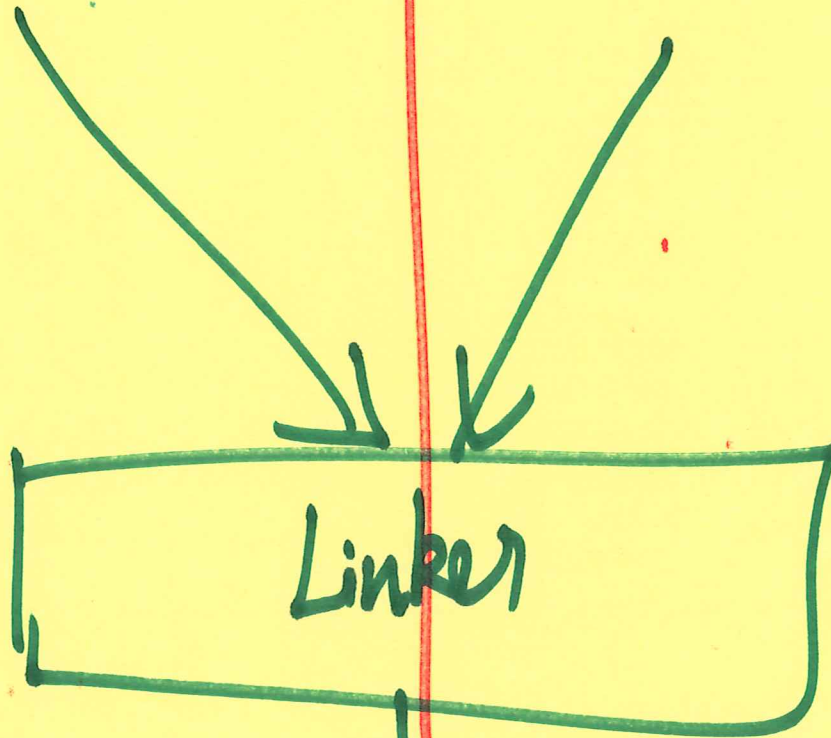
sum.c

extern int n;

n++;

main.c

static int n = 2;



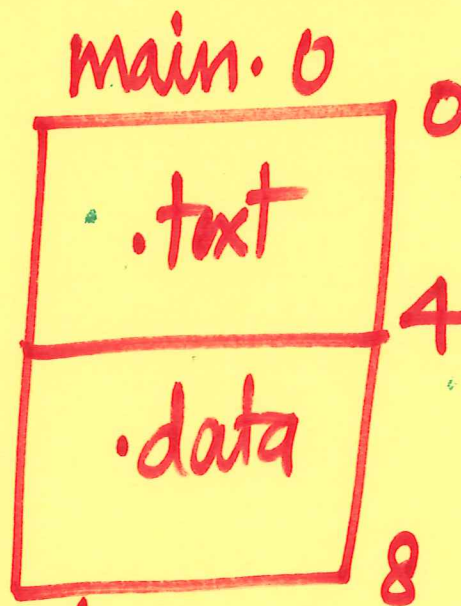
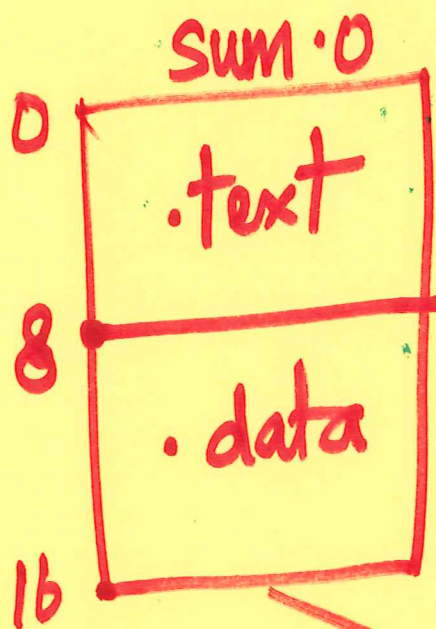
ld: undefined ref to n
in sum.c.

a.out object
executable file

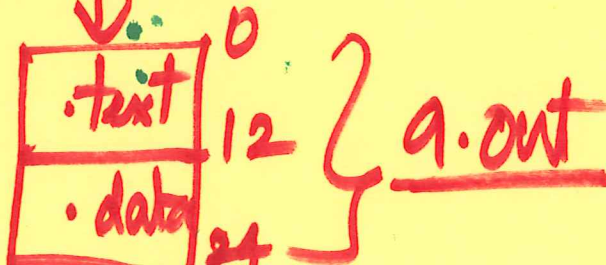
SUM.o

main.o

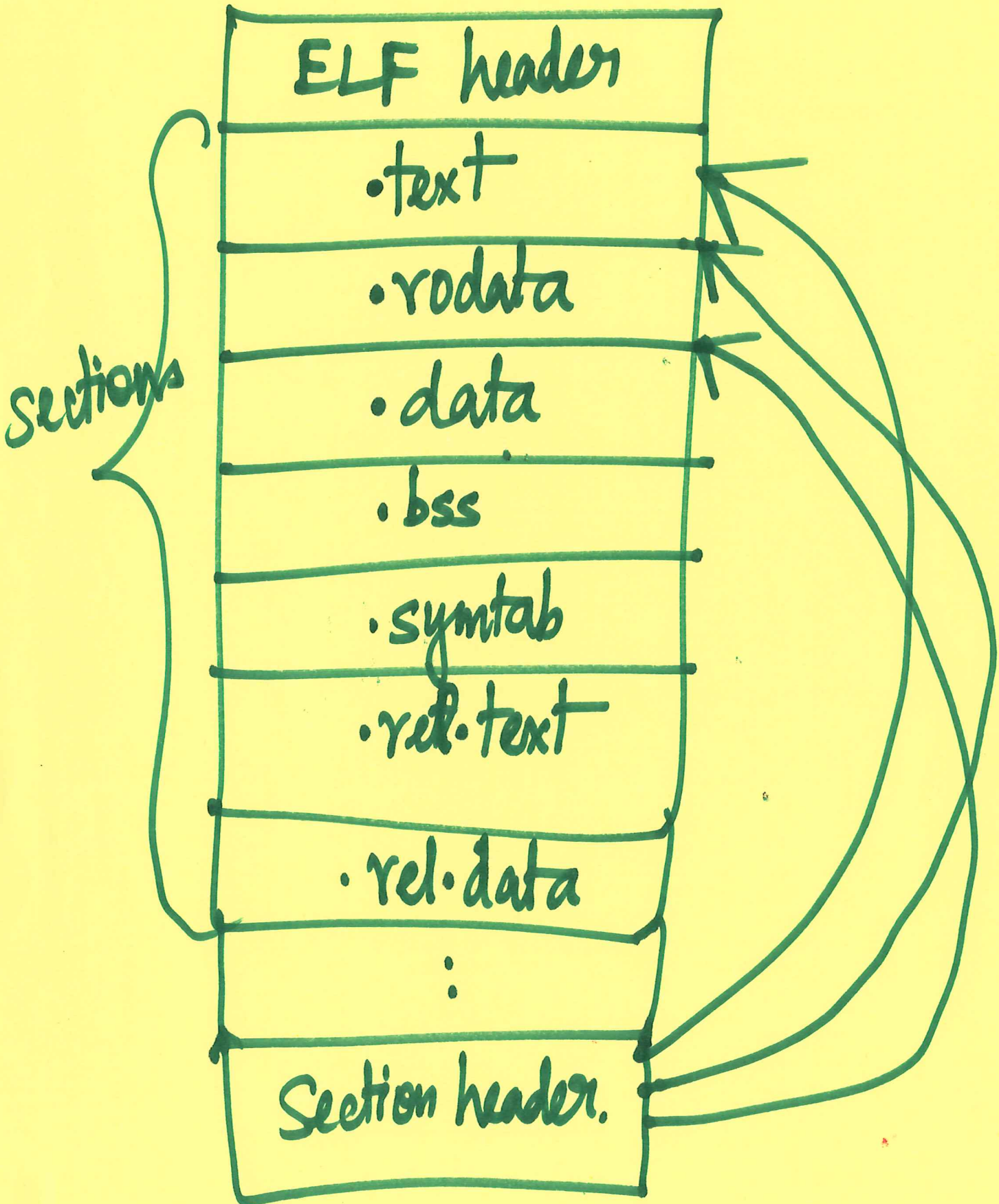
relocatable object files



ld



Relocatable obj files (SWM.O)



Executable obj file (a.out)

