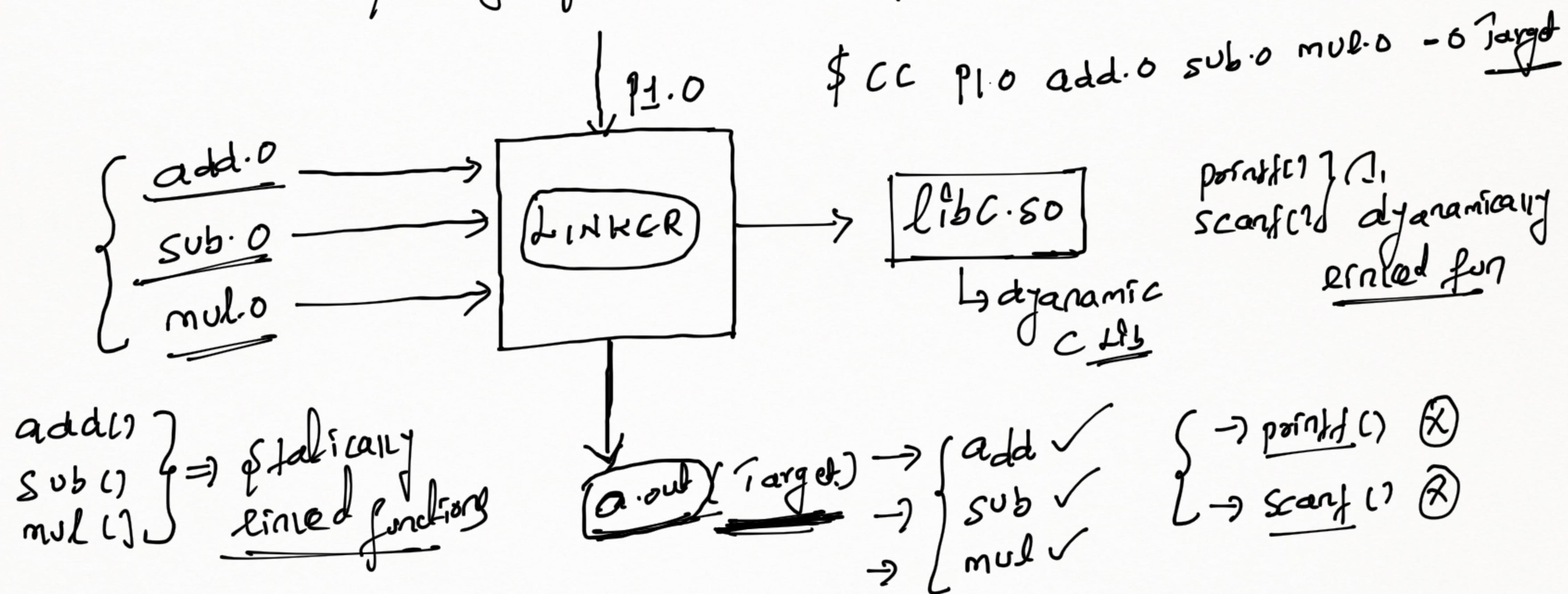


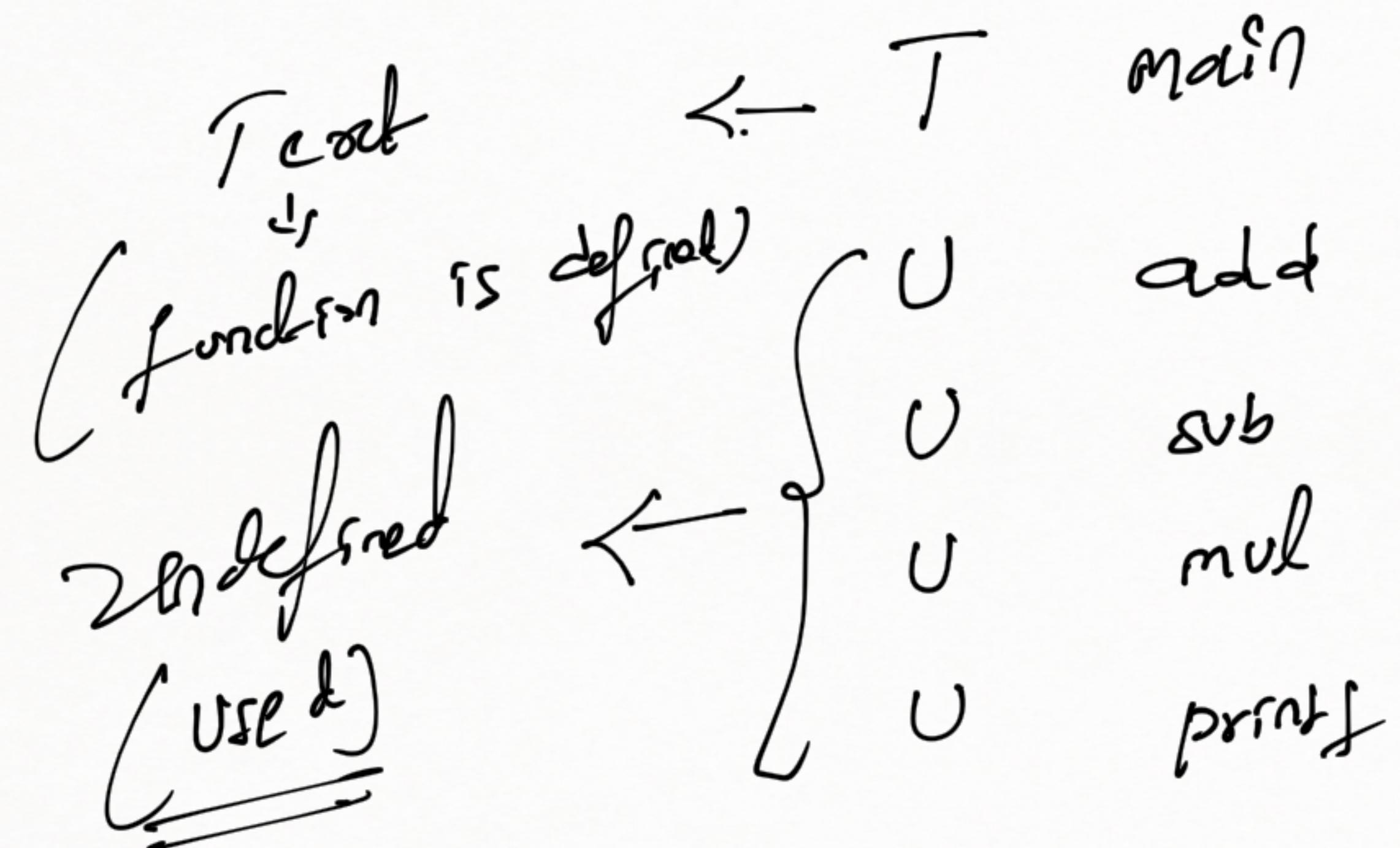
Date: 17 - 9 - 21

- A function  $f(x)$  is said to be statically linked function if it is defined inside The executable file
- A function  $f(x)$  is said to be dynamically linked function if it is not defined inside The executable file but it is used.
- An executable file a.out is said to be statically linked executable file, if there exist no functions which are going to linked in later stage

→ An executable (a.out) is said to be dynamically linked executable file, if there exist at least one function which is going to be linked in later stage.

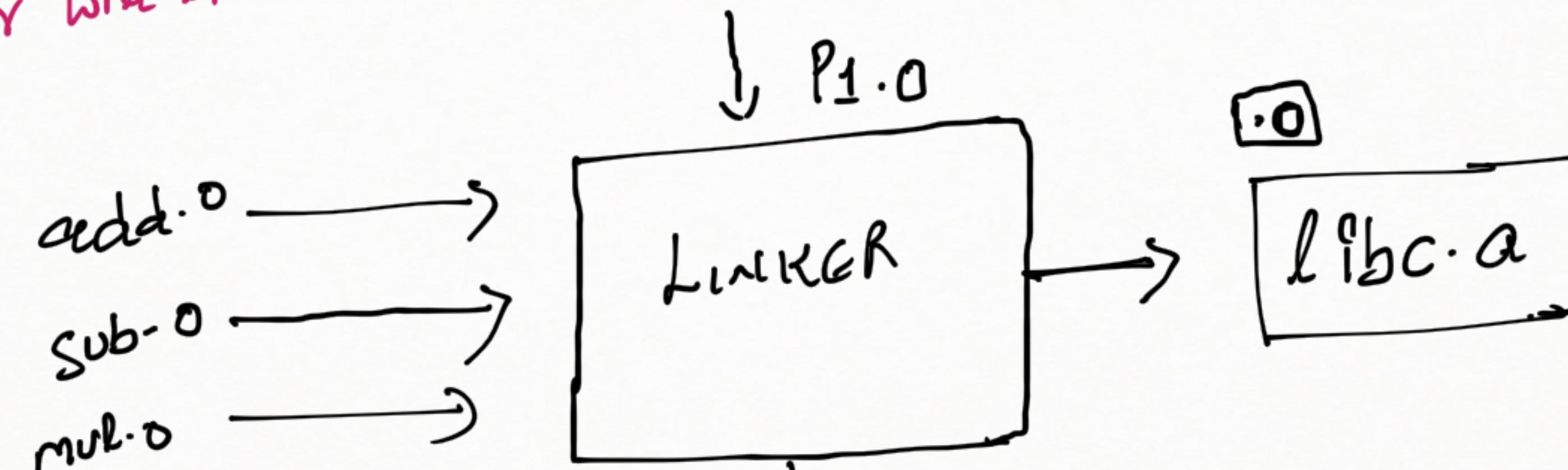


$\Rightarrow$  nm command will display symbols from object file (or executable file)



\$ cc -static p1.o add.o sub.o mul.o -o exe

$\downarrow$   
Linker will link to static library



→ exe is statically linked  
executable file

→ add() | printf()  
sub() | scanf() |  
mul() |  
⇒ statically linked functions

- ⇒ In order to create own librarys need object files
- ⇒ But the object files are generated by preoding  
fpic option (mandatory for shared objects)
  - ↳ position independent code
- ⇒ To create librarys both static and dynamic will have commands as follows.

