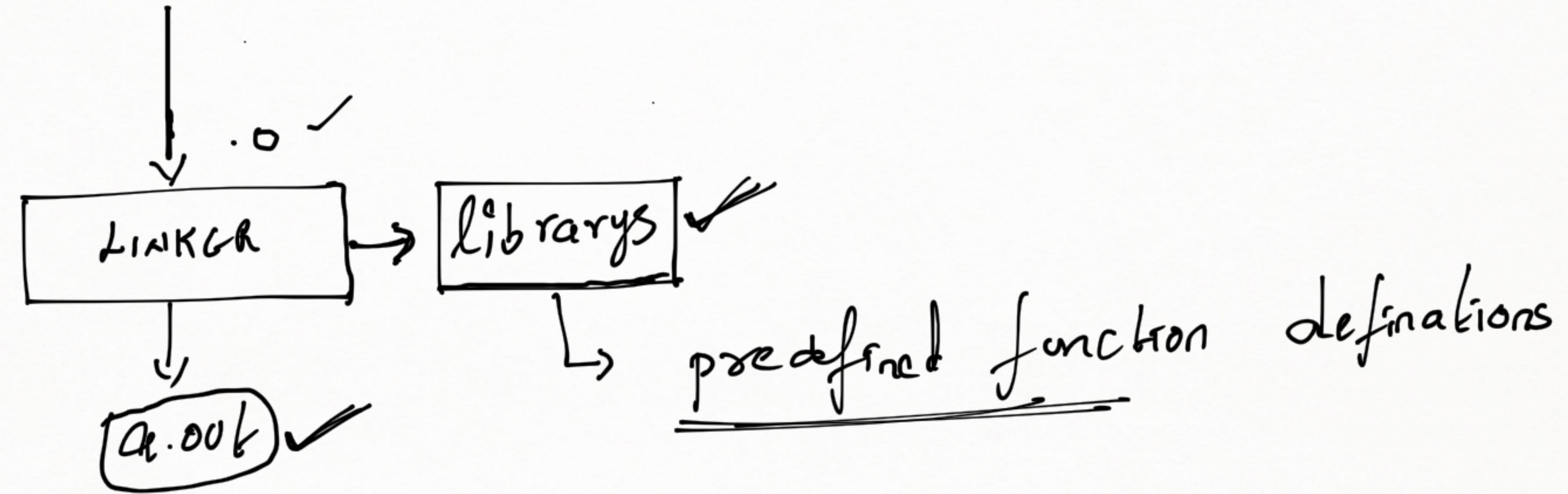
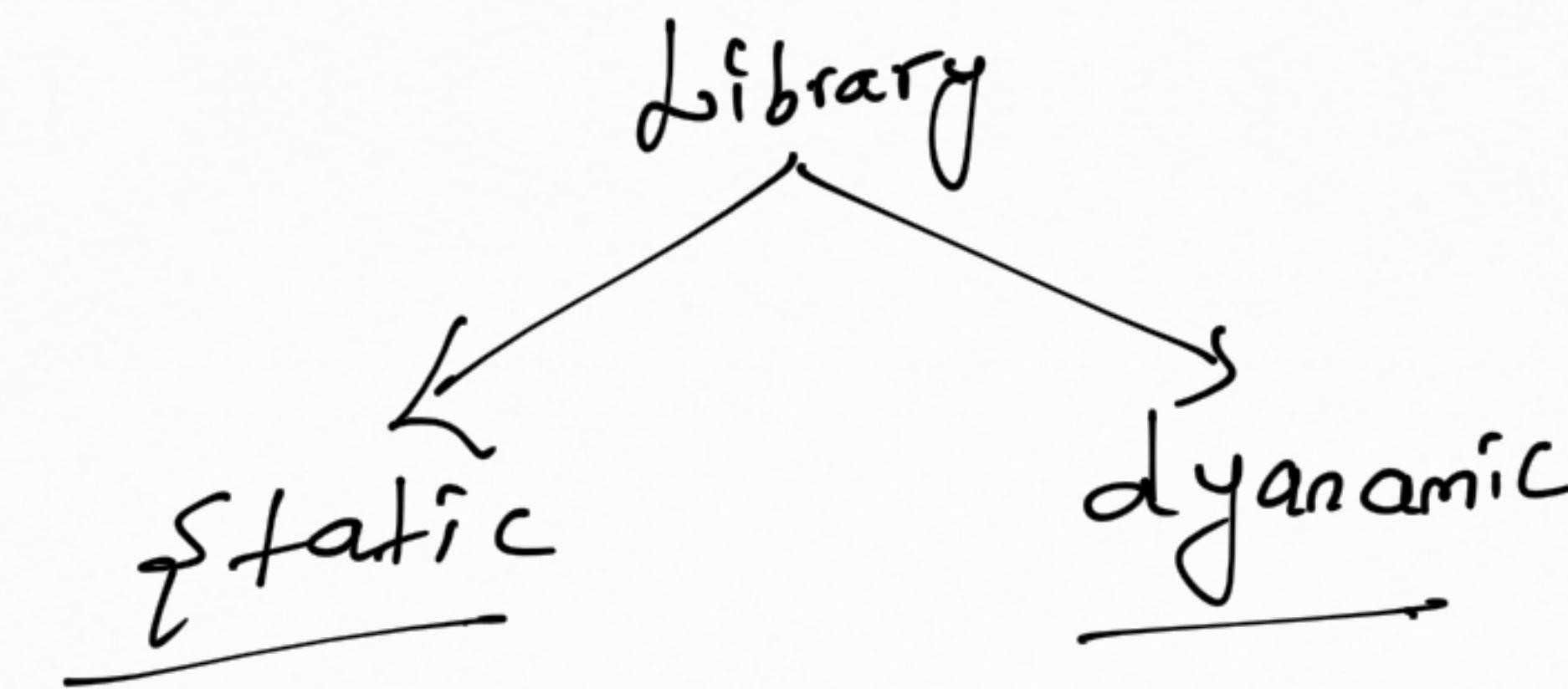


Date: 16 - 9 - 21

librarys



- Library contains pre-defined function definitions
- Library is a collection of object files
- Basically 2 - types of libraries



Static

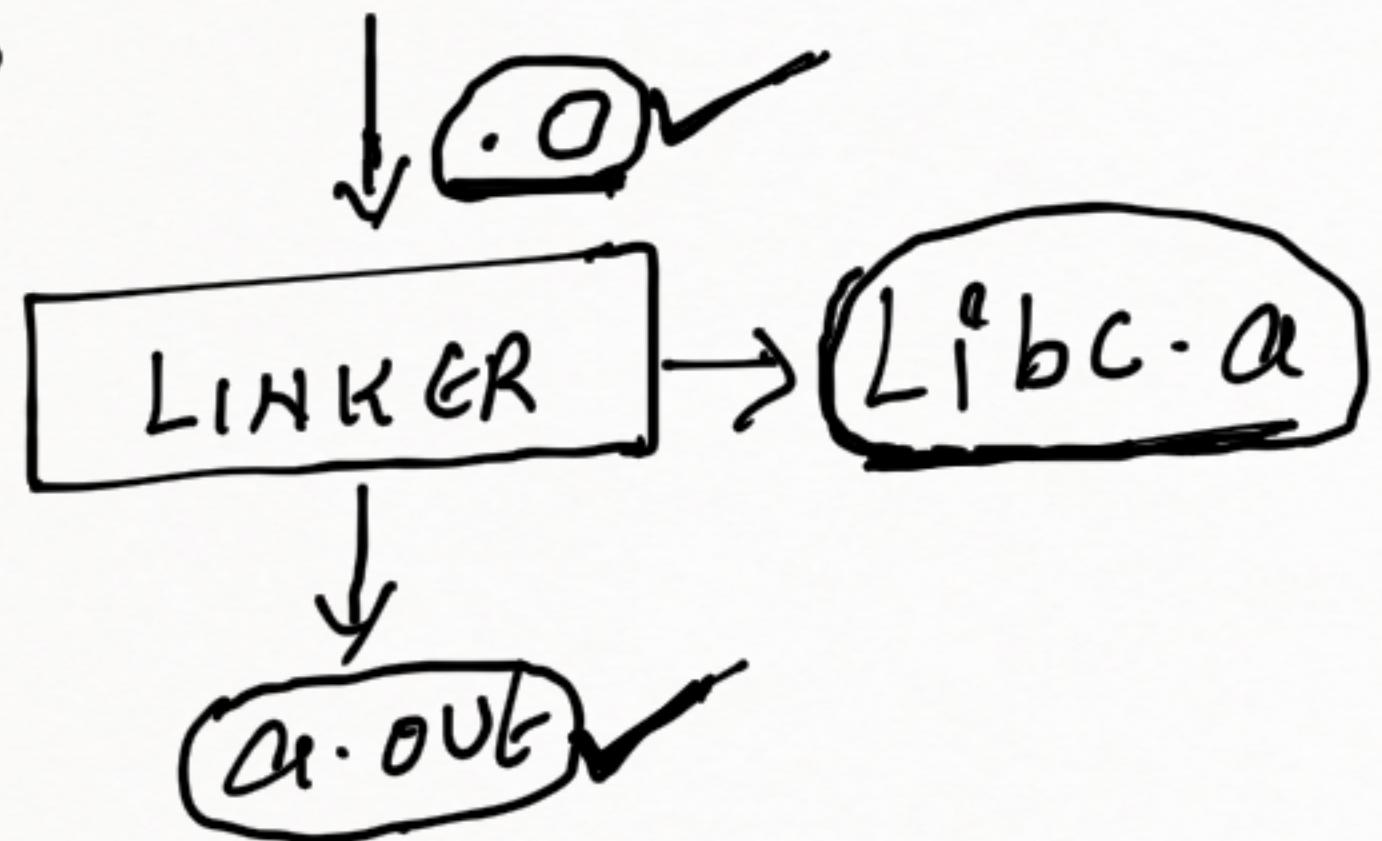
- Helps in static linking
- static librarys are called archives
- extension for static librarys is .a
Ex: libc.a
libm.a

dynamic

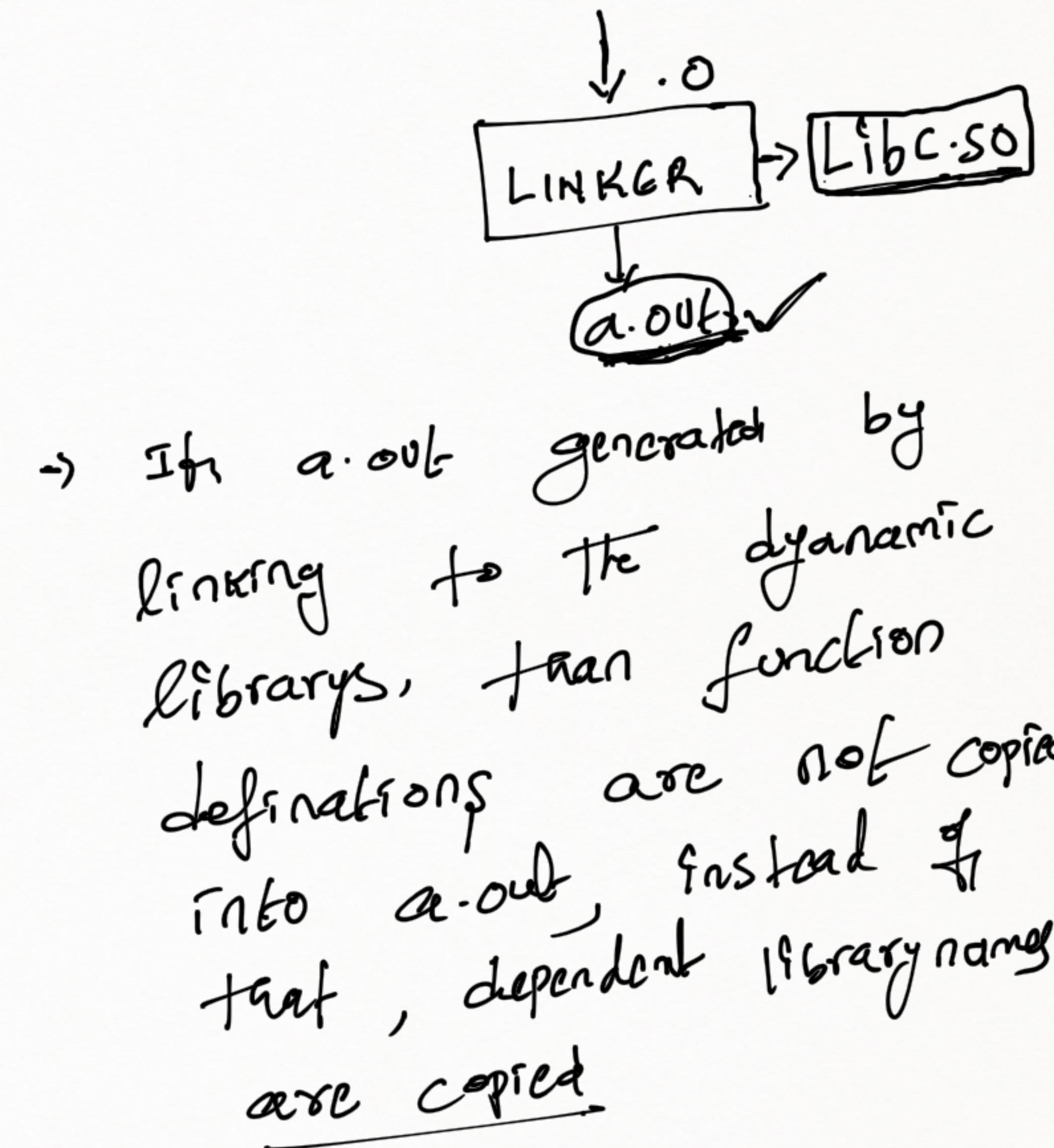
- Helps in dynamic linking
 - ↓
 - 2 types
 - ① load time linking
 - ② RUN time linking.
 - Dynamic Librarys are called as shared object (or) dll (dynamic link library)
 - extension for dynamic librarys is .so
Ex: libc.so & libm.so

Temp.C

->



-> If a.out generated by linking
to the static librarys, then
function definitions are copied
into executable file a.out

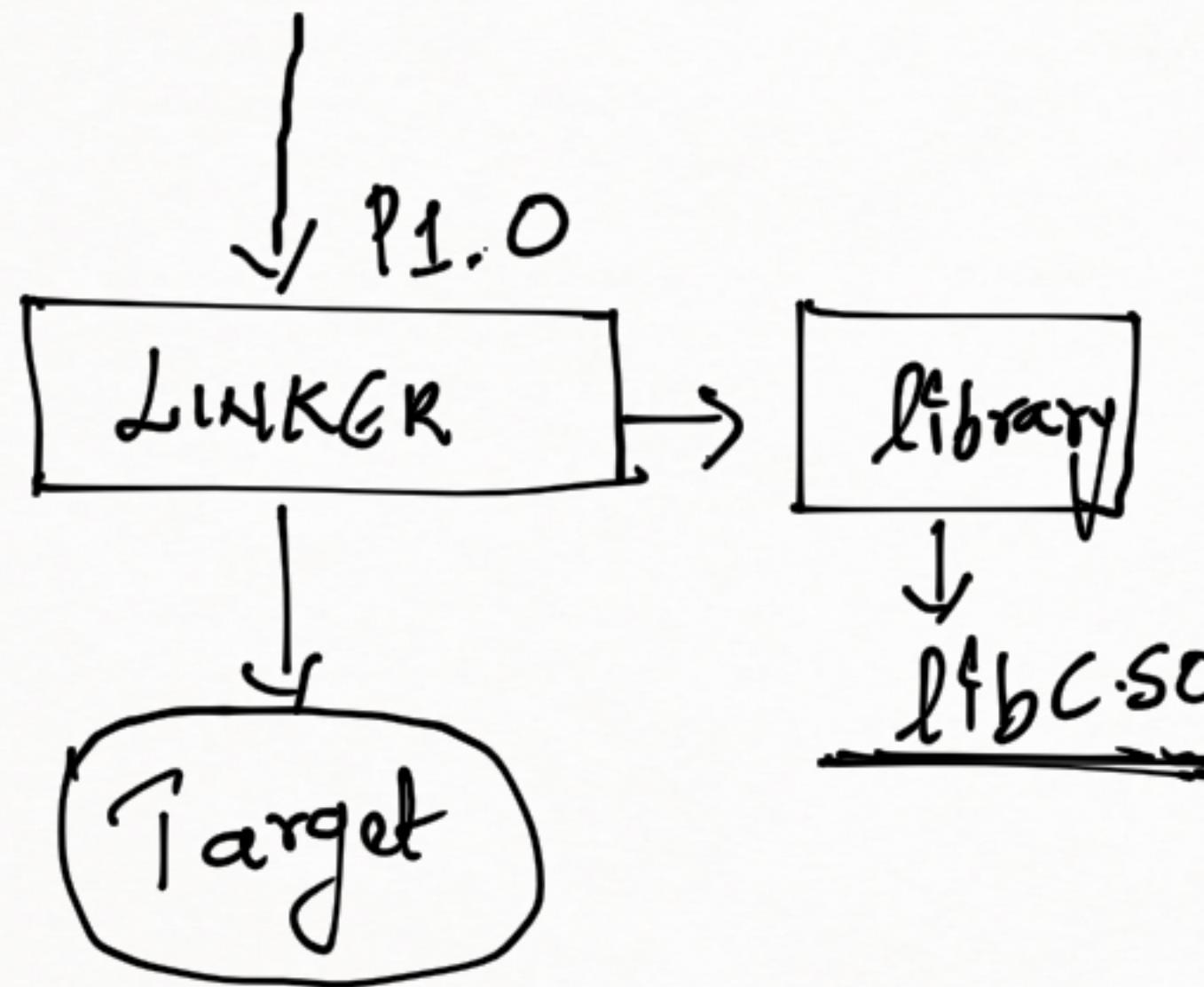


→ a.out file size more

→ During execution time
a.out is independent of
any other librarys

→ a.out file size is less

→ During execution time
a.out is dependent on librarys
a.out + dependent librarys
also loaded



\$ cc PI.O -o Target

By default linker linking to
dynamic library

libC.so

\$ cc =Static PI.O -o exe

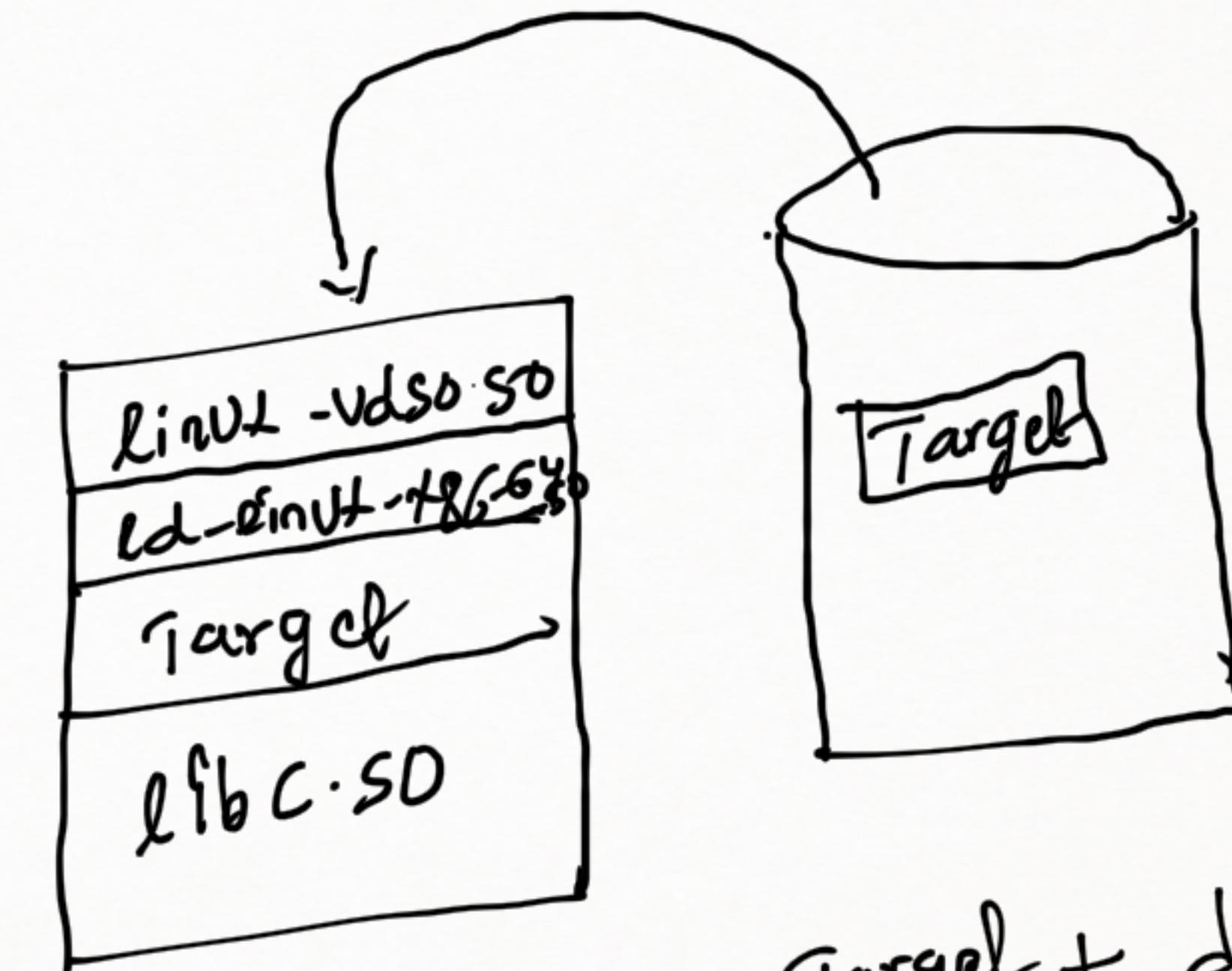
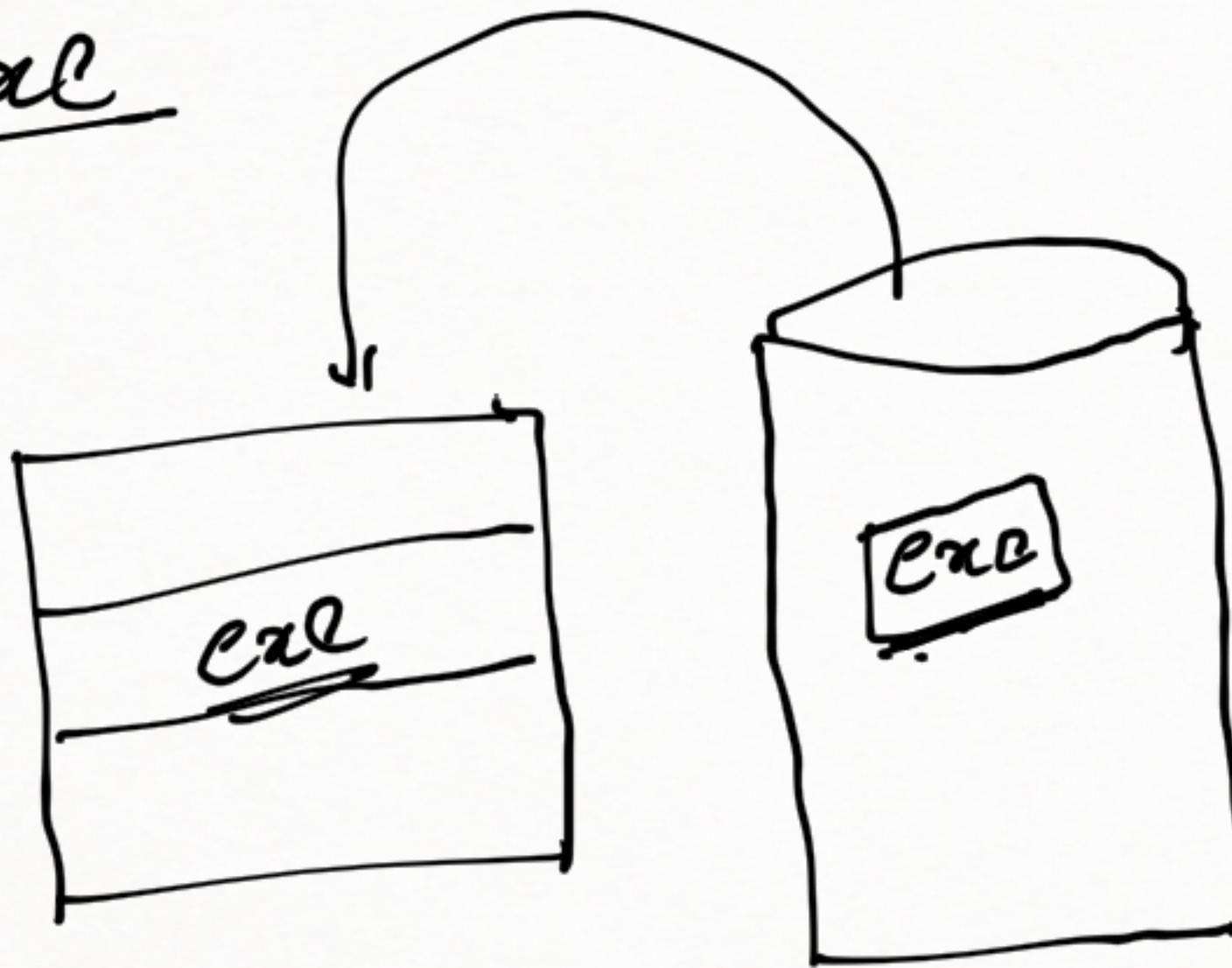
↓

PI.C

it is an
indication to linker that link to
of static library

libC.a

\Rightarrow calc



Target + dependent library

ldd: ldd command will display the library names on which the executable file is dependent