

# Assignment-1

## Computational Methods

-Raghav Sharma

1. Case 1: Difference between nm and ldd output before and after exp function call is added:

- nm output shown no difference
- ldd shows similar outputs with slight change in locations

Case 2: Difference between nm and ldd output when exp has constant versus variable as an argument:

- ldd shows an extra line in case of variable argument
- nm shows an extra line in case of variable case (U exp@@GLIBC\_2.5P)

Case 3: Output of c++filt with nm:

- Only nm and exp are shown. Meaning that c++filt was able to show the origin as well as the operation performed (nm) on the executable. This can be explained by the fact that c++filt gives output that is human-readable by performing demangling.
2. Program was analyzed with ldd and nm. c++filt was used with nm to give nm and exp (executable file name) as output.
  3. No difference was observed in both the outputs.
  4. Accessing foo as instructed gives output as CH1 along with the typed path.  
\* allows you to know the location of the parent directory.
  5. As shared in repository.
  6. As shared in repository.
  7. Same size of 17776 kilobytes is observed in both the cases.
  8. As shown in repository
  9. As shown in repository