UNIX ASSIGNMENT – 3

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SECTION: A

Create shell scripts for generating static and dynamic libraries.

1. STATIC: Output:

```
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ ls
arrayavg.c evenodd.c head.h linearsearch.c main.c selectionsort.c
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ gcc -c linearsearch.c -o linearsearch_obj.o
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ gcc -c evenodd.c -o evenodd_obj.o
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ gcc -c evenodd.c -o evenodd_obj.o
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ gcc -c anain.c -o main_obj.o
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ gcc -c anain.c -o main_obj.o
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ gcc -c anain.c -o main_obj.o
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ sar res eg_static.a linearsearch_obj.o selectionsort_obj.o evenodd_obj.o arrayavg_obj.o
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ ls
arrayavg.c arrayavg_obj.o eg_static.a evenodd.c evenodd_obj.o head.h linearsearch.c linearsearch_obj.o main.c main_obj.o selectionsort.c selectionsort_obj.o
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ ./main_result main_obj.o -L. eg_static.a
(base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ ./main_result
Element 23 found at index 7
Array after segregation
50 42 4 8 28 56 38 23 1 33 11
Original array:
50 42 4 8 28 56 38 23 1 33 11
Original array:
50 42 4 8 28 56 38 23 1 33 11
Original array:
50 42 4 8 28 56 38 23 1 33 11
Original array:
50 42 4 8 28 56 38 23 1 33 11
Original array:
50 42 50 (base) student@nit-OptiPlex-7070:-/Desktop/422123_unixlab$ ls
arrayavg.c eg_static.a evenodd_obj.o linearsearch.c main.c main_result selectionsort_obj.o
arrayavg.c eg_static.a evenodd_obj.o linearsearch_obj.o main_obj.o selectionsort.c
```

2. DYNAMIC: Output:

```
(base) student@int-optiPlex-7070:-/Desktop/422123_unixlabS gcc *.o -shared -o eg_dynamic.so
(base) student@int-optiPlex-7070:-/Desktop/422123_unixlabS lanearsearch_obj.o main_obj.o selectionsort.c
arrayayu.c. eg_dynamic.so evenodd.c. head.h
linearsearch_obj.o main_result selectionsort.c
arrayayu.c. og_static.a evenodd_obj.o ilnearsearch.c main.c
main_result selectionsort_obj.o
(base) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS gcc -o nain_result
and_nesult: error while loading shared libraries: eg_dynamic.so cannot open shared object file: No such file or directory
(base) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo cp_eg_dynamic.so
(base) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo cp_eg_dynamic.so
(base) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo re_pg_dynamic.so

li 33 4 8 28 56 12 33 8 4 50

Sorted array:

13 34 8 28 56 12 33 8 4 50

Sorted array:

14 8 11 23 28 33 8 42 50 56

Average = 26 (base) student@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo rn /usr/lib/eg_dynamic.so
(base) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS pud

//mor/student/psktop/422122_unixlab
//mor/student/psktop/422122_unixlab
//base) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo rn /usr/lib/eg_dynamic.so

//sase) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS pud
//mor/student/psktop/422122_unixlab
//sase) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo rn /usr/lib/eg_dynamic.so

//sase) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo rn /usr/lib/eg_dynamic.so
//sase) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo rn /usr/lib/eg_dynamic.so
//sase) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo rn /usr/lib/eg_dynamic.so
//sase) studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo rn /usr/lib/eg_dynamic.so
//sase studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo rn /usr/lib/eg_dynamic.so
//sase studen@int-optiPlex-7070:-/Desktop/422123_unixlabS sudo rn /usr/lib/eg_dynamic.so
//sase studen@int-optiPlex-7070:-/Desktop/422123_uni
```