

Gebze Institute of Technology
Department of Computer Engineering

CSE 241
Object Oriented Programming
Fall 2011

Homework # 3
Function Pointers and void *
Due date Oct 29th 2011

In this homework, you will use function pointers with `void *` type to write generic C++ functions.

- Read the documentation of function **lfind** from <http://pubs.opengroup.org/onlinepubs/007908799/xsh/lsearch.html>. Implement a **find** function that uses exactly the same interface as the **lfind** function. Reading about other similar functions such as **lsearch** and **qsort** might help.
- Write a function named **printArray** that takes an array of any type and prints the array contents. You may pass additional functions pointers.
- Write your main function that tests the above functions with types of **int**, **double**, **char**, **bool**, **CDBankAccountV1**.

Notes:

- All of your functions should take function pointers. Your functions should also take `void *` for arrays. You should write the functions that will be passed to the other functions.
- Do not forget to indent your code and provide comments.
- Test your programs very carefully and submit the test results too.
- You should email your homework to the TA.