

# Computer Programming

Lab9

May 23, 2025



# **Submission**



Submit to server

Lab # Class #

At the end of the Lab9, submit your C sources file by typing ~gs1401/bin/submit Lab9\_3 ex9\_3.c ex9\_extra1.c ex9\_extra2.c // by Fri. 10:50

You may check that you have submitted your source code correctly by typing ~gs1401/bin/submit -check

# Ex3



- Write a program that calculates and displays the discounted price by receiving the discount rate(%) for an integer array in which product prices are stored.
- The size of the array in which commodity prices are stored is 5, and commodity prices are input and used. The discounted price should be stored in a *separate* array.

#### Program output

```
[ohyong@cse ~/cp/Lab9]$ vi ex9_3.c
[ohyong@cse ~/cp/Lab9]$ gcc ex9_3.c -o ex9_3
[ohyong@cse ~/cp/Lab9]$ ./ex9_3
Enter 5 commodity prices:
13000 19000 21000 45000 7000
Discount rate(%)? 25
price: 13000 --> discounted price:
                                      9750
price: 19000 --> discounted price:
                                     14250
price: 21000 --> discounted price:
                                     15750
price: 45000 --> discounted price:
                                    33750
price:
         7000 --> discounted price:
                                      5250
[ohyong@cse ~/cp/Lab9]$ ./ex9_3
Enter 5 commodity prices:
13000 19000 21000 45000 8000
Discount rate(%)? 33
price: 13000 --> discounted price:
                                      8710
price: 19000 --> discounted price:
                                     12730
price: 21000 --> discounted price:
                                     14070
price: 45000 --> discounted price:
                                    30150
price:
         8000 --> discounted price:
                                      5360
```

# Extra1



• Write a program to separate odd and even integers in *separate* arrays. The size of the array is not greater than 10.

### Extra1



#### Program output

```
[ohyong@cse ~/cp/Lab9]$ vi ex9_extra1.c
[ohyong@cse ~/cp/Lab9]$ gcc ex9_extra1.c -o ex9_extra1
[ohyong@cse ~/cp/Lab9]$ ./ex9_extra1
Separate odd and even integers in separate arrays:
Input the number of elements to be stored in the array :5
Input 5 elements in the array :
element - 0 : 25
element -1:47
element - 2 : 42
element - 3 : 56
element - 4 : 32
The Even elements are :
42 56 32
The Odd elements are :
25 47
```

```
[ohyong@cse ~/cp/Lab9]$ ./ex9_extra1
Separate odd and even integers in separate arrays:
Input the number of elements to be stored in the array:9
Input 9 elements in the array :
element - 0:11
element - 1 : 12
element - 2 : 13
element - 3:14
element - 4:15
element - 5 : 16
element - 6 : 17
element - 7 : 18
element - 8 : 19
The Even elements are :
12 14 16 18
The Odd elements are :
11 13 15 17 19
```

## Extra2



• Read an integer *n*, then read *n* integers into an array. Check if the array reads the same forwards and backwards (i.e., it's a palindrome). If it is, print "It is a palindrome"; otherwise, print "It is not a palindrome".

#### Program output

```
[ohyong@cse ~/cp/Lab9]$ vi ex9_extra2.c
[ohyong@cse ~/cp/Lab9]$ gcc ex9_extra2.c -o ex9_extra2
[ohyong@cse ~/cp/Lab9]$ ./ex9_extra2
Enter the value of n: 5
Enter 5 integers: 1 2 3 2 1
It is a palindrome
[ohyong@cse ~/cp/Lab9]$ ./ex9_extra2
Enter the value of n: 4
Enter 4 integers: 1 2 3 4
It is not a palindrome
[ohyong@cse ~/cp/Lab9]$ ./ex9_extra2
Enter the value of n: 6
Enter 6 integers: 1 2 2 3 2 1
It is not a palindrome
```