
Lab Exercise 2

— CSDC102: Intermediate
Programming —

Before your codes...

```
//*****  
// Filename :  
// Date :  
// Subject :  
// Second Semester, SY 2019 - 2020  
// Activity : Lab 1A  
// Problem Title :  
// Input :  
// Output :  
//  
// Honor Code : *insert honor code here*  
//  
// Complete Name :  
// ID Number :  
// Year-Course : 1-BSCS  
// DCS, College of Computer Studies  
// Ateneo de Naga University  
//*****
```

Honor Code : This is my own program. I have not received any unauthorized help in completing this work. I have not copied from my classmate, friend, nor any unauthorized resource. I am well aware of the policies stipulated in the handbook regarding academic dishonesty. If proven guilty, I won't be credited any points for this exercise.

Lab 2A: Golden String

Program Description:

- A golden string is any single word that begins and ends with a consonant. Given a list of strings, determine whether each one is a golden string or not. Input contains several lines of one-worded strings separated by the newline character. A string may be a combination of uppercase and lowercase letters.
- Display "*golden*" if a string is a golden string; otherwise, display "*not golden*".

Lab 2A: Golden String

- Specifications:
 - Filename: **Lab2A_SURNAME.cpp**
 - Input file: **golden.in**
 - Output: standard output

Lab 2A: Golden String

Sample Input

starbucks

Resonators

ADA

peace

war

ingress

Sample Output

golden

golden

not golden

not golden

golden

not golden

Lab 2B: Maximum

Program Description:

- Given a set of integers, print out the maximum per line.
- The first number per line indicates the number of integers following it.
- The first number per line should not be included in the process.

Lab 2B: Maximum

- Specifications:
 - Filename: **Lab2B_SURNAME.cpp**
 - Input file: **maxxie.in**
 - Output: standard output

Lab 2B: Maximum

Sample Input

4 6 5 4 7

9 2 6 5 8 4 5 7 3 6

7 4 2 5 7 3 4 3

Sample Output

7

8

7

Lab 2C: Lulu Legendary

Program Description:

- Little kid genius Lulu wanted a number sequence named after her. She then decided to come up with something and told all her other friends it's a number pattern she has invented and that someday, it's going to be legendary.
- Below is an example of Lulu's soon-to-be-renowned number sequence:
1, 3, 7, 15, 31, 63, 127, ...
- Be able to deduce the formula Lulu used in devising her number sequence.

Lab 2C: Lulu Legendary

Program Description:

- Your task is to write a program that will determine Lulu's sequence from a given starting value M and a limit N which indicates the number of values in the sequence. You may assume that M is always positive.
- Input consists of a series of pairs of integers M and N , where M is the starting value and N is the limit, separated by a space; one pair of integers per line.
- For each pair of numbers in the input, output Lulu's sequence with N values from number M . If N is less than or equal to one (1), output "N/A".

Lab 2C: Lulu Legendary

- Specifications:
 - Filename: **Lab2C_SURNAME.cpp**
 - Input file: **lulu.in**
 - Output: standard output

Lab 2C: Lulu Legendary

Sample Input

2 5

10 3

100 0

12 7

Sample Output

2 5 11 23 47

10 21 43

N/A

12 25 51 103 207 415 831