

Programming Assignment 2

Submission Deadline: 27/8/2017 11:59 PM

Programming Assignment 2 asks you to write and submit the following programs.

1. Sum

A C and "ARM" Program that takes as input an integer N. Which is followed by N integers in the next line. Output should be 1 integer i.e. the sum of the integers.

Constraints:

$N \leq 20$

$0 \leq \text{Integers} \leq 50$

Sample Input 1

5
2 4 3 5 1

Sample Input 2

8
21 43 1 32 11 29 17 7

Sample Output 1

15

Sample Output 2

161

2. Reverse Fibonacci

A C and "ARM" Program that takes as input an integer N and prints the Nth fibonacci number in reverse order. Eg. the 10th fibonacci number is 34, it should print 43.

Note: 50% marks will be awarded to those who are able to print the Nth Fibonacci number. 100% marks will be awarded for correctly printing the reversed Nth Fibonacci number.

Fibonacci sequence: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584, 4181

Constraints:

$N \leq 20$

Sample Input 1

4

Sample Input 2

8

Sample Input 2

20

Sample Output 1

2

Sample Output 2

31

Sample Output 2

1814

Note: The assignment submission should be a zip file containing exactly 4 files, 2 in the format <roll_no>_<question_number>_<firstname>.c and 2 in the format <roll_no>_<question_number>_<firstname>.s eg. 2014072_1_palash.c and 2014072_1_palash.s