Foundations & Data Structures With C++



Assignment 2(b) – Programming Fundamentals

- 1. Write a program that asks the user for a number n and gives him the possibility to choose between computing the sum and computing the product of 1,...,n.
- 2. Write a program to generate the reverse of a given number.
- 3. Write a program to print first 20 terms of the series 3n+2 which are not multiples of 4.
- 4. Given a binary number convert it into decimal.
- 5. Given a decimal convert it into binary.
- 6. Write a program to find square root of an input.
 - a. Just find the integral part
 - b. Find the square root with an accuracy of n decimal points, n is provided by the user.
- 7. You are given S a sequence of n integers S = s1, s2, ..., sn. Please, compute if it is possible to split S into two parts : s1, s2, ..., si and si+1, si+2,, sn ($1 \le i \le n$) in such a way that the first part is strictly decreasing while the second is strictly increasing one. First take n as input and then take n more integers, output yes or no.