## **PPWC Daily Practice**

Date:28/10/2024

Write C statements to carry out the following steps.

(a) If item is nonzero, then multiply product by item and save the result in product; otherwise, skip the multiplication. In either case, print the value of product.

## Logic:

- 1. The loop goes through each number in the list.
- 2. If item is non-zero, it multiplies product by the item and updates product.
- 3. After each iteration, it prints the current value of product, whether the multiplication occurred or not.
- (b) Store the absolute difference of x and y in y, where the absolute difference is (x y) or (y x), whichever is positive. Do not use the abs or fabs function in your solution.

## Logic:

- 1. The code checks if x is greater than y.
  - i. If true, it calculates x y and stores it in y.
  - ii. If false, it calculates y x and stores it in y.
- 2. This way, y ends up with the absolute difference between x and y without using abs or fabs.
- (c) If x is 0 , add 1 to zero count. If x is negative, add x to minus sum. If x is greater than 0 , add x to plus sum.

## Logic:

- 1. The code initializes zero\_count, minus\_sum, and plus\_sum to store the respective values.
- 2. For each number x:
  - a. If x is 0, it increments zero\_count.
  - b. If x is negative, it adds x to minus\_sum.
  - c. If x is positive, it adds x to plus\_sum.
- 3. Finally, it prints the results for each count and sum.