

SET2

Write any two programmes.

1. Solve the Fractional Knapsack problem using greedy approach

2. Problem: Given a text string T and pattern string P, find total positions in T where P occurs with at most 1 mismatch

Input: T = "abcdeabfde", P = "abf"

output :count=2, [Positions= 0,5]

3. You are given a string `expr` that represents a valid arithmetic expression composed of:

- **Single-digit positive integers** (0-9)
- The **binary operators**: +, -, and *

Your task is to determine the **minimum** and **maximum** values that can be obtained by placing **parentheses** in different ways to change the order of operations.

You must consider **all possible valid parenthesizations** of the expression and return the **minimum and maximum result** obtainable from evaluating those different expressions.

Input: 1+2*3-4

Output

Min value= -3

Max value= 5