1. **Reversing words with options:** write a program that takes a **input a string (sentence) & option** and generates a new string by reversing the words in the original string.

**Example 1**:

**If Option =0 :**

**Input string =** ” This is saMple ExamPle”

**Output string =** “sihT si elpMas elPmaxE”

**If Option =1 :**

**Input string =** ” This is saMple ExamPle”

**Output string =** “Siht si elPmas ElpmAxe”

**Example 2**:

**If Option =0 :**

**Input string =** ” This is saMple ExamPle.”

**Output string =** “sihT si elpMas .elPmaxE”

**If Option =1 :**

**Input string =** ” This is saMple ExamPle.”

**Output string =** “Siht si elPmas .elpMaxE”

1. **Longest Increasing Sequence(LIS):** given an integer array, find the length of longest increasing sequence.

**Example 1:**

Input 1: 9

Input2[]={11,3,4,7,8,12,2,3,7}

Output=5

**Example 2:**

Input 1: 12

Input2[]={12,17,21,3,7,9,10,11,33,100,4,8}

Output=7

**Example 3:**

Input 1: 6

Input2[]={12,11,10,3, 2,1}

Output=0

1. **How many 2-digit prime numbers will exactly sum up to N:** find the minimum number of 2-digit prime numbers which when added will be equal to given number N.

**Example 1:**

Input 1 = 28

Output = 2(11+17)

**Example 2:**

Input 1 = 14

Output = -1

**Example 3:**

Input 1 = 43

Output = 1(43 itself prime number)

**Example 4:**

Input 1 = 121

Output = 3(11+13+97)

**Example 5:**

Input 1 = 33

Output = 3(11+11+11)