

## Bio Task 2 (Nussinov Algo)

Saturday, 16 April, 2022

### ☐ Initializing Matrix [N\*N] 0 of 2 •

- ☐ Initialize Matrix with ZERO
- ☐ Initialize Trace back Matrix with ZERO

Assigned to: Safaa

### ☐ Checking & Indexing 0 of 2 •

- ☐ pairCheck() =>returns Boolean, Check if matrix[i] and matrix[j] are paired or not
- ☐ Initialize Dictionary rnaDict{}, to map each character in the input sequence to a unique identifier to access them when filling the matrix

Assigned to: Abdulrahman

### ☐ getMaximum() =>returns Value & index 0 of 2 •

- ☐ Get maximum value of K from Bifurcation (merging two substructures)
- ☐ return the maximum and its index

Assigned to: Maryam

### ☐ fillMatrix() =>Processing 0 of 3 •

- ☐ Check Left & Down
- ☐ Check Diagonal
- ☐ Fill with the Maximum & Bifurcate

Assigned to: Ahmed & Yossef

### ☐ traceBack() =>returns finalDotList 0 of 2 •

- ☐ Bifurcation => dotList
- ☐ Diagonal => ')', '('

Assigned to: Amany

Completed

### ☒ ~~Due date: 20/April~~ Wed, Apr 20 •



Deliver your assigned task with respect to time,  
as another member will continue after you

<https://github.com/AhmedNasser1601/NussinovAlgorithm>