**Band Protocol assignment (Software engineer)**

**Problem 1: Boss Baby's Revenge**

Example :

str := bossBaby("SRSSRRR")

**Problem 2: Superman's Chicken Rescue**

Example :

n := 5

k := 5

chicken := []int{2, 5, 10, 12, 15}

maxSave := superman(n, k, chicken)

**Problem 3: Transaction Broadcasting and Monitoring Client**

1. Broadcast Transaction:

urlPost := "https://mock-node-wgqbnxruha-as.a.run.app/broadcast"

payload := jsonCode{

Symbol: "ETH",

Price: 4500,

Timestamp: 1678912345,

}

jsonBytes, \_ := json.Marshal(payload)

respP := callApi(urlPost, "POST", jsonBytes)

var dataP respPOST

errP := json.Unmarshal([]byte(respP), &dataP)

if errP != nil {

fmt.Println(errP)

}

fmt.Println(dataP.Tx\_hash)

2. Transaction Status Monitoring:

Tx\_hash := "5dfcbf86eba4ca4473eb20cc05d7448fa5da7b4263d1ccf674379caf3c022fa3"

urlGet := "https://mock-node-wgqbnxruha-as.a.run.app/check/" + Tx\_hash

respG := callApi(urlGet, "GET", nil)

var dataG respGET

errG := json.Unmarshal([]byte(respG), &dataG)

if errG != nil {

fmt.Println(errG)

}

fmt.Println(RepInfo(dataG.Tx\_status))

3. Documentation:

- `CONFIRMED`: Transaction has been processed and confirmed

- `FAILED`: Transaction failed to process

- `PENDING`: Transaction is awaiting processing

- `DNE`: Transaction does not exist

respData := "DNE"

fmt.Println(RepInfo(respData))