

Problem 1:

//declare a struct or class that defines what words will be paired with the other word then places a count along with it. Struct pair

Word 1

Word 2

Frequency

// take the input and format it with a vector made with the constructed Struct

Vec<pair> deuce

//long string for input

String input = Get line (string, in)

//loop back if empty()

If (input. Size() == null)

String input = Get line (string, in)

//output in another string with frequency

//using the given sentence splitter function break the input into sentences.

//for each sentence in the defined input tokenize it by breaking down the sentence's further into words.

//using the newly formed individual words; for each word grab two unequal words and group them together in pairs

//not adding duplicates

// assign the newly grouped words into the declared Struct

//for each word pair in deuce compare with the word pair in Struct pair

//if pair exists frequency ++

//if else then the pair is not there and needs to be pushed_back into newly formed pair

//new method to find the highest frequency of word pairs

Void highest frequency of word pairs(deuce) {

//for each word pair in pair

//if frequency is > frequency in word pair

//new max frequency[location]

```

}
//Else if they have the same amount then do nothing
Return 0

```

Problem 2:

```

countPairs(Items, costCount, <freq):
// frequency of item pairs

freqItems = [ ] ;

// frequency plot is (n = number of items) 2 raised to n fields, stores the count of each items pairs all
set to zero

freqPlotting = {0};

// number of times items or pair has to appear to become frequent
for (costCount):

<ItemCount = <freq x (Items)

CostCountBS = BinarySwitch(Items, costCount)

Configuration = BinaryStringCfg(CostCountBS)

// Convert to int

for(Configuration) :

    ConfigCount = int CostCountBS(Configuration)

    freqPlotting[ConfigCount]++

for(ItemPairCount of freqPlotting):

    if(ItemPairCount > (<ItemCount))

// Create a items list and sort to array

Items = ItemListIndex(ItemPairCount)

//Sort back to array
freqItems.push(Items)

```

return freqItems