* Mode - most common value in a list
* Pass Array as Argument
* Define vars, $mode, $size
* {,1,6,1,9,11,13,6,3}
* Sort Array ex { 1, 1, 1, 3, 9, 6, 6, 11, 13 }
* Matts suggestion- count the number of times that number appears in the array and put that in a array.
* Start at be beginning of the array and see if you have any more of this number
* Start at first index
* Every time we pass a number for the first time we know it has a frequency of one = start initial frequency to one. For that value
* Now we are going to look at the next element in the array
* ( if we don’t sort, we have to store all of them , easier to sort it )
* Create a $values[] array and a $freq[] array

As we go through each number we are going to populate the arrays

First time I come across a value I store it in my values array.

Lopp thought array

If we encounter a new value we are going to story it in our values array, we havnt seen it before so we can put in the value array.

So we set the freq to one because we saw it one time.

Value array [ 1, 6, 4

Freq array [ 1, 1, 1

To add to array ( $ value(size($value)]=

Use float array contains to see if it exist . it will return 1 or 0, true of false

Else ( not new )

Find index of number/ position in the value array so we can increase the freq

Find index of number in vale array

We are going to increase the number in the freq array at the same number of the index

\*freq[index]=freq[index]+1

https://uvu365.sharepoint.com/sites/Course\_dgm\_3670\_001\_2021\_fall\_full\_term-3fORSds5DAYP3/Shared%20Documents/Forms/AllItems.aspx?id=%2Fsites%2FCourse%5Fdgm%5F3670%5F001%5F2021%5Ffall%5Ffull%5Fterm%2D3fORSds5DAYP3%2FShared%20Documents%2FGeneral%2FRecordings%2FMeeting%20in%20%5FGeneral%5F%2D20210930%5F113344%2DMeeting%20Recording%2Emp4&parent=%2Fsites%2FCourse%5Fdgm%5F3670%5F001%5F2021%5Ffall%5Ffull%5Fterm%2D3fORSds5DAYP3%2FShared%20Documents%2FGeneral%2FRecordings

Look in my freq array and what ever is the highest is my mode

Deal with multiple modes

{3, 4 ,7 , 1, 6, 4 ,10,3}

Scan numbers, compare next number if its bigger dumb last number store current number

Start by storing the first variable

Go to next on ask is it bigger, if it is store that instead

If its not bigger, skip it

Note from joeys question: ( for loop is scanning them all )

global proc float Mode ( float $number{})

{

float $mode;

float $values [];

int $freq[];

//I am going to look thought my numbers array and see if it exist in my values array.

for( $i =0, $i <size($numbers); $i++)

{

If (floatArrayContains($numbers[$i], $values) == 0 // new value

{

$values[size($values)] = $number[$i};] // this is how we assign something to the end of an array

$freq{size($freq)} = 1;

}else // new value already appears

{

Int $index = floatArrayFind( $numbers[$number{$i},0, $values);

Print ($index);

$freq[$index} = $freq{$index} + 1;

}

// remember true is 1 false is 0

}

print (floatArrayToString($value,”,”));

print (“\nValues:\n”;

print (“\nFrequency:\n”)

print (intArrayToString($freq,”,”));

int $mawValue = 0;

for($i=0; $i<size($freq); $i++){

} if($freq{$i} > $maxValue)

{

$maxValue = $freq{$i};

}

}

Int $modeIndex = intArray Find($maxValue, 0, $freq);

$mode = $values{$modeIndex};

return $mode;

}

Mode ({3,5 ,7,3,6,9,3,1});