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sortSearch pseudo code

main{

char choice – holds user menu choice

float gpa[SIZE] – holds decimal gpa. Size determined by SIZE.

Int eSize = 0 – effective size of gpa Arrayd

Int flag = 0 – trips when user enteres a value to the array

displayMenu() – displays a simple menu system

choice = getChoice() – prompts user for menu choice

switch(choice) – menu system

A: Get a gpa

eSize = getGpa

trip so flag = 1

B: Display Average

displayAverage(gpa array, eSize, flag)

C: Display Highest

Highest(gpa array, eSize, flag)

D: Display Lowest

Lowest(gpa array, eSize, flag)

E: Display Adjusted average

adjAverage(gpa array, eSize, flag)

G: Display Sorted

displaySort(gpa array, eSize, flag)

Q: Quit}

int getGpa(float array[], int eSize){

Checks to see if array is full.

Prompts user for a GPA.

If GPA > 3.5, prints “Nice Work”

If GPA < 2.0 prints “Study Harder”

Trips

Increments eSize, then returns it

}

Void average(gpa array, eSize, flag){

Float average

Checks flag, if 0 prompts user to use A option to enter values. Returns to main.

Adds all elements in array using for loop. Stores it in average.

Print(The Average is “average”)

}

Void highest((gpa array, eSize, flag){

float highest;

Checks flag, if 0 prompts user to use A option to enter values. Returns to main.

Sorts array using bubble sort.

Int highest = gpa[0]

Print(The highest GPA is “highest”)

}

Void lowest(gpa array, eSize, flag){

float lowest;

Checks flag, if 0 prompts user to use A option to enter values. Returns to main.

Sorts array using bubble sort.

Int lowest = gpa[0]

Print(The lowest GPA is “lowest”)

}

adjAverage(gpa array, eSize, flag){

float adjAv

Checks flag, if 0 prompts user to use A option to enter values. Returns to main.

Checks to see if eSize is atleast 2.

Sorts array.

Average calculation using a for loop with (I < eSize – 1) to ignore lowest value.

Print(The Adjusted Average is “adjAc”)

}

displaySort (gpa array, eSize, flag){

Checks flag, if 0 prompts user to use A option to enter values. Returns to main.

Sorts array.

Prints all elements in the array

}