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Problem 1 (25 points):

Write a method that will prompt the user for decimal numbers and will display the maximum.

- 1. Pass to the method a parameter (n) representing now many numbers they will enter
- 2. **Prompt** the user for *n* numbers
- 3. Returns the maximum of the n numbers
- 4. **EXAMPLE** below

Running this code, should produce the output below interface, which should result in the displayed list of values:

```
myThing = findMax(4);
System.out.println("The maximum of "
+"the i entered values is " + myThing);
Please enter number 1 >> 1
Please enter number 2 >> 2.5
Please enter number 3 >> 6.8
Please enter number 4 >> 4.2
The maximum of the 4 entered values is 6.8
```

```
myThing = findMax(3);
System.out.println("The maximum of "
+"the 4 entered values is " + myThing);

Please enter number 1 >> 100

Please enter number 2 >> -5

Please enter number 3 >> -125

The maximum of the 3 entered values is 100:0
```

Questions (3 points each):

1. What datatype should n be?

integer

2. What datatype should be returned?

double

- 3. To store the values, we must use an array (circle one): TRUE FALSE
- 4. What statement or Java keyword should be used to return the list?

foreach

Code (13 points):

<u>NOTE:</u> This is a method that does not display anything. If main(String[] args), System.out for displaying the list items, or import is written, you will receive zero (0) points for this section. Assume all necessary items are imported already.

public static double find Max (Int n) {

Scorner inp = new Scorner (bystem.in);

double () nums = new arr [n]; double maxnum = 0;

for (int i = 0; i < n; i++) {

print ("please enter number "+(i+1) +" >>")

nums [i] = inp. next Double(); }

if (nums [i] > maxnum) {

if (nums [i] > maxnum) {

return maxnum; }

}



Problem 2 (25 points):

Write a main method that will prompt the user for integer numbers and will display the maximum.

- Will take the number of values (n) as a command line argument.
- **Prompt** the user for *n* numbers
- Displays a list of numbers with all negative numbers entered first, then all non-negative after this (order does not matter). 0 is non-negative.
- **EXAMPLE** below:

C:\>java Quiz3 6					
Please en	ter nu	umber	1	>>	5
Please en					
Please en	ter nu	umber	3	>>	-5
Please en	ter nu	umber	4	>>	-6
Please en	ter nu	mber	5	>>	89
Please en	ter nu	ımber	6	>>	-3
-5, -6, -3, 89, 2, 5					

Questions (3 points each):

What datatype should n be?

Code (13 points):

import java.util.Scanner; public class Quiz3 {

What datatype should the values entered be?

- 3. To store the values, we must use an /TRUE/ FALSE array (circle one):
- What statement should be used to display the maximum?

(I've just used it on the book page)

public static void main(String[] args) { Sconner input = new Sconner (system.in); int n = input. next Int(); int [] orgsp; int [] args n args [] = new orr [n]; for (int i = 0; i < n; i++) { System. out. printil ("Please enter number _ "+ (1+1)+">>-"}. args[i] = input.next Int(); if (orgs[i] < 0) {argsn[i] = args[i] } else { argsp[i-ara.i.length] = arys[i]} for (inti=0; i Zargsn.length &; i++) {

System.out.print (org Sn [i]+) }

for (int i=0; ic orgsp. length int) } CSE 101 Fall 2023 System. aut. print (orgsp [i] + ",