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Mr. Sarkar

BubbleSort

**Input:**

import java.util.\*;

public class Sorter2

{

public static void BSort(int[] nums){

boolean swap = true;

while(swap){

swap = false;

for(int i = 0; i < nums.length-1; ++i){

if(nums[i] > nums[i+1]){

int copy = nums[i];

nums[i] = nums[i+1];

nums[i+1] = copy;

swap = true;

}

}

}

}

public static void main(String[]args){

// Creates scanner to read input

Scanner keyboard = new Scanner(System.in);

// Asks and assigns a name to user

System.out.println("What is your name?");

String name = keyboard.nextLine();

System.out.println("\nOh! Hello " + name + "!");

// Asks how many ints the user wants to sort

System.out.println("How many numbers do you want to sort?");

int n = keyboard.nextInt();

// Creates int array of n ints

int[] nums = new int[n];

// Provides the ints for sorting

System.out.println("\nOkay, so I'll sort " + n + " numbers " + name + ", just punch em' in!");

int counter = 0;

while(counter < n){

nums[counter] = keyboard.nextInt();

counter++;

}

System.out.println("\nOkay, let me sort these for you " + name + "...\n");

//Does sorting process using BubbleSort method

System.out.println("So, before I sorted them the numbers were:\t");

for(int number: nums){

System.out.print(number + " | ");

}

BSort(nums);

System.out.println("\n\nAfter the sort, they look like this:\t");

for(int number: nums){

System.out.print(number + " | ");

}

// Concludes process

System.out.println("\n\nWell, it was great helping you " + name + "! \nLook forward to the next time!");

}

}

**Output:**

First Set:

What is your name?

Forrest Gump

Oh! Hello Forrest Gump!

How many numbers do you want to sort?

10

Okay, so I'll sort 10 numbers Forrest Gump, just punch em' in!

10

7

6

2

1

3

8

9

5

4

Okay, let me sort these for you Forrest Gump...

So, before I sorted them the numbers were:

10 | 7 | 6 | 2 | 1 | 3 | 8 | 9 | 5 | 4 |

After the sort, they look like this:

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Well, it was great helping you Forrest Gump!

Look forward to the next time!

Second Set:

What is your name?

Bruce Wayne

Oh! Hello Bruce Wayne!

How many numbers do you want to sort?

10

Okay, so I'll sort 10 numbers Bruce Wayne, just punch em' in!

10

-987

4

4

9

27

1000000

0

0

0

Okay, let me sort these for you Bruce Wayne...

So, before I sorted them the numbers were:

10 | -987 | 4 | 4 | 9 | 27 | 1000000 | 0 | 0 | 0 |

After the sort, they look like this:

-987 | 0 | 0 | 0 | 4 | 4 | 9 | 10 | 27 | 1000000 |

Well, it was great helping you Bruce Wayne!

Look forward to the next time!

Third Set:

What is your name?

Leonardo DiCaprio

Oh! Hello Leonardo DiCaprio!

How many numbers do you want to sort?

6

Okay, so I'll sort 6 numbers Leonardo DiCaprio, just punch em' in!

7

7

7

7

7

7

Okay, let me sort these for you Leonardi DiCaprio...

So, before I sorted them the numbers were:

7 | 7 | 7 | 7 | 7 | 7 |

After the sort, they look like this:

7 | 7 | 7 | 7 | 7 | 7 |

Well, it was great helping you Leonardi DiCaprio!

Look forward to the next time!