Array Algorithms

Mr. Neat
Java

Array Algorithms

Examples of array algorithms

- 1) find the minimum value in a an int array
- 2) find the max
- 3) add the all the elements in the array together
- 4) find the average value of an array of ints

Array Algorithms: find the minimum

what is the minimum?

How about now?

How about now?

Now the code...

```
int[] num = new int[10];
int min = 1000;
int c = 0;
while(c < num.length)
   num[c] = Canvas.rand(100);
   System.out.print(num[c] + " ");
  c = c + 1;
```

Now the code continued

```
c = 0;
System.out.println();
while(c < num.length)
   if(num[c] < min)
      min = num[c];
   c = c + 1;
System.out.println(min);
```

Lab

- Create an array of random integers
 - Array size is between 51 and 200
 - All values between 1 and 100
- Find the minimum
- Find the maximum
- Find the average
- Print out how many elements and all of the above