

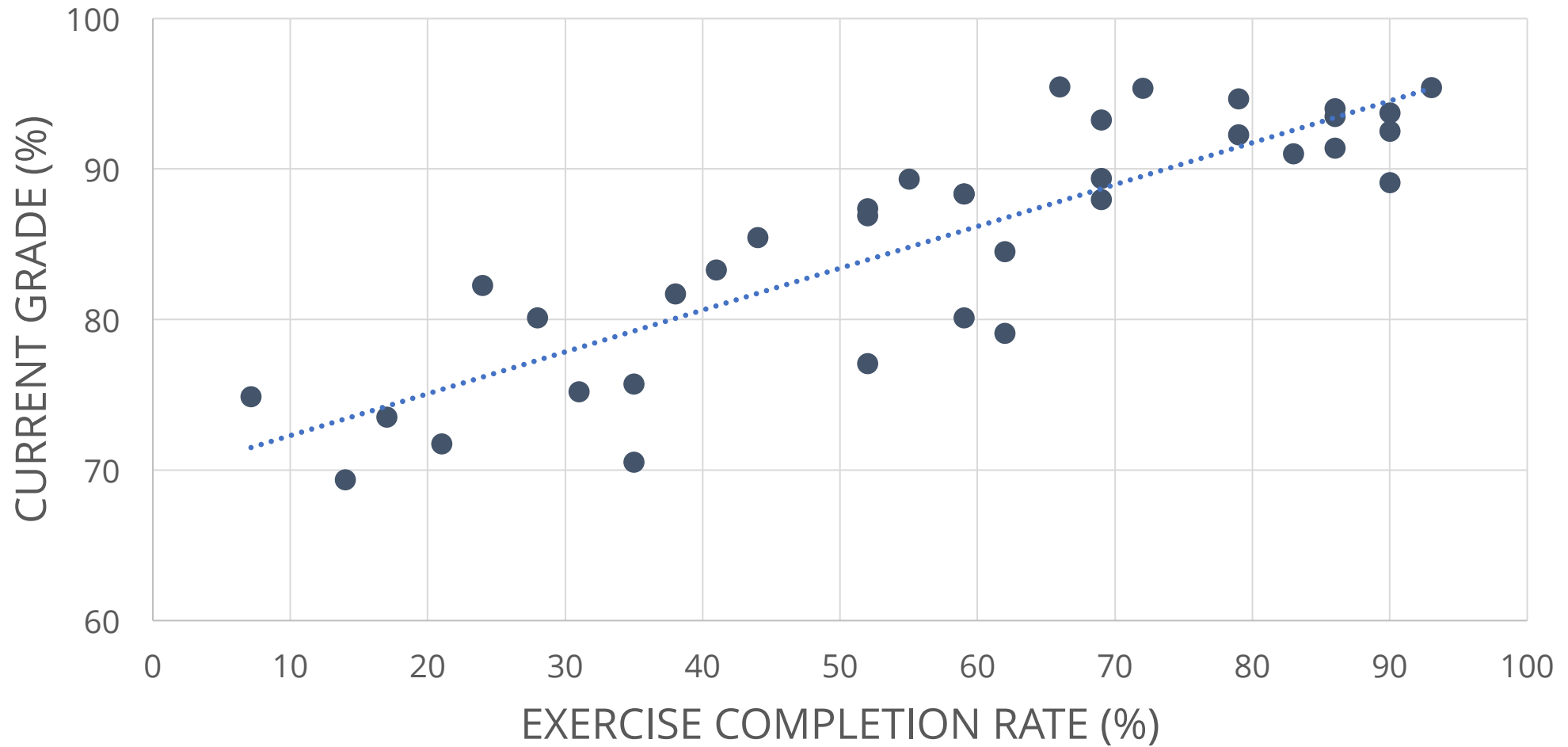
CSCI 1370

APRIL 5, 2017

ADMINISTRATIVA

- No CS 1 Seminar (Thursdays w/Professor Dietrich) this week.
- Peer evaluations due by April 11.
- A gentle reminder to stay on top of repl.it activities...

CORRELATION BETWEEN COURSE GRADE AND EXERCISE COMPLETION RATE



ARRAYS CONT.

Review...

- array declaration: `int arr[x];`
- declaration w/population: `int arr[x] = {a, b, c, ...};`
- char arrays:
 - `char arr[x];`
 - `char arr[x] = {'a', 'b', 'c', ...};`
 - `char arr[] = "abc...";`

- array indexing: `arr[i];`
- example (update): `arr[i] = a;`
- example (retrieval): `cout << arr[i];`

```
char arr[] = "hello!";  
  
for (int i=0; arr[i] != '\0'; ++i)  
{  
    cout << arr[i];  
}
```


Exercise: copy the integer array - `int a[5] = {1, 2, 3, 4, 5}`
- into a second array (call it `b`).

Exercise:

- Declare an integer variable – x – (value to be user-specified).
- Declare an integer array – a – of size x .
- Populate a with the user's input.
- Populate another array (of type bool; call it b) with the values of $a \% 2$.
- Copy a – in reverse order – into a new int array (call it c).

Exercise: implement the following functions, such that they find the largest number being stored in a given array and return...

- its *value*: `double getMax(double a[], int size)`
- its *index*: `int findMax(double a[], int size)`

Exercise: implement the following function, such that it sorts the elements in the array in increasing order.

```
void sort(double a[], int size)
```