Computer Science I

CMPE/CSCI 1370 - 01

For this particular loop, how many times is C performed?

A. O

B. 1

C. 9

D. 10

E. 11

Before the loop exits, what is the last section that's performed?

A. A

B.B

C. C

D. D

Collections

What are examples of collections in real life?

Arrays

- A. declare an array
- B. initialize an array
- C. access an element of an array (indexing operation)

```
//A
int arr[5] = {10, 20, 30, 40, 50};

cout << arr[0]; // C
cout << arr[1];
cout << arr[2];
cout << arr[3];
cout << arr[4];</pre>
```

```
//A
int arr[5] = {10, 20, 30, 40, 50};

cout << arr[0]; // C
cout << arr[1];
cout << arr[2];
cout << arr[3];
cout << arr[4];</pre>
```

- Declaration: what does the number between the braces stand for?
- How many elements does this array have?
- Indexing: what is the range of indexes for this array?
- What do you think happens when you access an array element outside this range?

For the below array declaration, which of the following statements correctly references the value 'e'?

```
char arr[5] = {'a', 'b', 'c', 'd', 'e'};
```

A. arr[5]

B. arr[4];

C. arr[3];

D. arr[e];

E. arr['e']

Iterating (traversing) through an array

```
for (int i = 0; i < 5; i++) {
  cout << arr[i];
}</pre>
```

Array as parameter

```
void show_array(int arr[], int length) {
  for (int i = 0; i < length; i++) {
    cout << arr[i];
  }
}
int main () {
  int arr[5] = {10, 20, 30, 40, 50};
  show_array(arr, 5);

  return 0;
}</pre>
```

In-class exercises!

Attendance!

http://bit.ly/1370-1rollcall