

Last Time

• We

11/8/04

- Started looking at arrays and how they can be used
- Today we will
 - Cover more examples of arrays, as well as investigating how to pass arrays to functions

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Problems

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- P#1: Write a C++ program segment that will switch the values in the first and third elements of the array
- P#2: Write a C++ program segment that will declare an integer array nums of size 100. Then place the first 100 positive even integers into the array nums starting with the first element and proceeding to the end of the array
- P#3: A data file of grades exists with an unknown number of characters. Write a C++ program segment that will read these characters into a character array. Assume no more than 1000 characters exists in the data file
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Passing arrays to functions

- Can pass individual elements
- If the whole array is passed, it is automatically passed by reference. Why do you think that is?
- The address of the array is passed to the function so that any element of the array can be accessed
- The address of an array is the memory location of the first element

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Problem

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• Write the function definition for a 'large' function that stores the larger of each element in arry1 and arry2 in arry3, where arry1 contains {1, 2, 3, 4, 5} and arry2 {5, 4, 3, 2, 1}. If the program works, arry3 should have {5,4,3,4,5}.

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Solution
void large (int size, int arry1[], int
arry2[], int arry3[]);
void main()
ł
  const int size = 5;
  int arry1[] = {1,2,3,4,5};
  int arry2[] = {5,4,3,2,1};
  int arry3[size];
  large (size, arry1, arry2, arry3);
}_____
```

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