



161-01

Arrays as Pointers

Friday October 11

Agenda

1. Homework 5 questions?
2. Discussion
3. Lab

Questions about
Homework 5?

Discussion

Arrays as Pointers

1. What is the difference between these two function declarations?

```
int find_smallest(int values[], int len);
```

```
int find_smallest(int* values, int len);
```

2. Given local array `double nums[8];` write an expression to get the value at `nums[1]` without using the indexing operator (`[]`).

Discussion

Arrays as Pointers

3. What will the following code blocks print?

```
{ char letters[] = {'w', 'x', 'y', 'z'};  
char c = letters[2];  
char* p = letters + 2;  
printf("c: %c, *p: %c\n", c, *p);
```

```
{ int nums[] = {100, 101, 102, 103, 104, 105};  
int* p = nums + 4;  
printf("*p: %d\n", *p);
```

Discussion

Arrays as Pointers

4. Fill in the blanks:

```
int find_first_odd(int* nums, int len){
    for(int* pos = nums;                      ;                      ){
        if(*pos % 2 == 1){
            return *pos;
        }
    }
    return -1;
}
```

Lab



Wrap up



For next time:

- There are two readings on our website for Monday
- Work on Homework 5
- Submit Lab Report 6