Week 07
Exercise

2018 Fall
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Exercise 0

Write a **recursive** function that takes two integers and obtains powers.

Example

```
$ ./a.out
2 10
1024
```

Prototype

```c
int pow(int a, int b);
```
Exercise 1

Take 10 integers and print the average except for the largest number and the smallest number. Discard the rest. Ignore decimals.

Example

```
$ ./a.out
3 17 1 39 8 41 2 32 99 2
18
```
Exercise 2

Write a function that takes two arrays and lengths and performs dot product. Length is less than 10.
Note the Call-by-Reference.

Example

$ ./a.out
5
1 2 3 4 5
2 4 6 8 10
110

Prototype

```c
int dot_product(int arr1[], int arr2[], int len);
```
Exercise 3

Write a function that takes an integer array and its length, and move it horizontally by the given number.
The absolute value of a given number is less than its length.
If the number is out of array, move it to the opposite side.
Note the Call-by-Reference.

Example

Prototype

```
int rotate(int arr[], int num);
```