

## Day 7 (Mon 2/7)

- Exercise 6 review
- Day 7 recap questions
- Exercise 7

HW1 due Friday (2/11)  
by 11 pm

HW2 - soon

slido.com

jhuintprog01

↑  
zero

## Exercise 6

opening the input file :

```
FILE * in = fopen ( argv[1], "r" );
```

```
if ( in == NULL ) {
```

```
    fprintf ( stderr, " Could not open input file '%s' \n", argv[1] );
```

```
    return 1;
```

```
}
```

opening the output file:

```
FILE * out = fopen ( "output.txt", "w" );
```

```
if ( out == NULL ) {
```

```
    // similar...
```

## Exercise 6 (continued)

reading p and r:

```
parse = fscanf(in, "%f %f", &p, &r);
```

compound\_interest function:

```
if (n > 0) {  
    float a = pow(1.0 + (r/n), n*1.0);  
    return a;  
} else {  
    // continuous compounding case
```

## Exercise 6 (continued):

printing answers to output file:

```
fprintf( out, "%0.2f_ %0.2f_ %0.2f \n",  
          ci_annual, ci_monthly, ci_cont);
```

return non-0 if error

```
if (parse != EOF) {
```

```
    print error message
```

```
    return 1;
```

```
}
```

## Exercise 6 (continued):

checking for I/O error(s):

```
if ( ferror( in ) ) {
```

```
    print err msg
```

```
    return 1;
```

```
}
```

```
if ( ferror( out ) ) {
```

```
    print err msg
```

```
    return 1;
```

```
}
```

note that calling `ferror`  
is only meaningful after  
attempting to read input  
or write output





