C Programming (con't)

- 1. Add Prologue Comments to this C program, which include:
 - · Brief description of the program
 - Inputs
 - Output
- 2. Add comments on every line.
- 3. If the user enters the number 6, what will the output be?

```
#include <stdio.h>
int main() {
   int n, i, a = 0, b = 1, nextTerm;
   printf("Enter the number of terms: ");
   scanf("%d", &n);
   printf("Fibonacci Series: ");
   printf("%d %d ", a, b);
   for (i = 3; i <= n; ++i) {
      nextTerm = a + b;
      printf("%d ", nextTerm);
      a = b;
      b = nextTerm;
   }
}</pre>
```

C Programming (con't)

David O. Johnson EECS 348 (Fall 2025)

45

1. .

- 1. Description: Takes a user integer input n, prints out n terms of the Fibonacci sequence
- 2. Inputs: User input n, initialized a =0, b =1
- 3. Outputs: Command line output displaying Fibonacci sequence up to n terms

2. .

3. 0, 1, 1, 2, 3, 5