

DYNAMIC SCOPING

```

int a = 0;
sub show(int b)
  {
  display(a+b);
  }
sub f(int b)
  {
  int a = 1;
  show(b);
  }
f(3);

```

STATIC SCOPING – EXAMPLE 1

- In the following program identify which definition each identifier refers to:

```

int a=1;
int b=2;
function f(int b, int c) {
  int d;
  function g(int a) {
    int b;
    ... a ... b ... c ... d ... f(...) ... g(...) ...
  }
  ... a ... b ... c ... d ... f(...) ... g(...) ...
}
... a ... b ... c ... d ... f(...) ... g(...) ...

```

STATIC SCOPING – EXAMPLE 2

- order of function calls shown with numbers in red

```

int f(int i) {
  int j;
  int g(int i) {
    int f(int i) {
      int j;
      ... g(4)
    }
    ... j=5 ... f(3)
  }
  ... g(2)
}
... f(1);

```