

Another example: where does each variable go?

```
class A {
public static void main(String[] args) {
    System.out.println(42);
}
}

class B {
int[] x;
boolean mool;

public int foo(boolean p1, int p2, B b, int[] p3) {
    boolean v1; int i; int j; return 0;
}
public B bar() {
    B b;
    b = new B();
    return b;
}
public boolean baz() {
    return mool;
}
}
```

CS453 Lecture

C- Stack Frame Layout

3

Determining locations for vars

Local vars

- maintain counter for method that is initialized to 0
- store counter in a temporary variable
- **decrement** current counter by size of the local variable
- return the value in the temporary variable

Class members

- maintain counter for method that is initialized to 0
- store counter in a temporary variable
- **increment** current counter by size of the local variable
- return the value in the temporary variable

CS453 Lecture

C- Stack Frame Layout

4