Name-declaration binding: Pascal

```
program Sample(input, output);
    var x, y : Real;
    procedure op1;
      var y, z : Integer;
    begin
       ...
       x := 27.4;
       ...
       y := 34;
       ...
    end {op1};
begin
      ...
      y := 3.7;
      ...
end {Sample}.
```

Name-declaration binding: Java

```
class Sample {
    private double x, y;
    public void op1() {
      int y, z;
      ...
      x = 27.4;
      ...
      y = 34;
      ...
    } //op1
    public void op2() {
      ...
      y = 3.7;
      ...
    } //op2
  } // Sample
```

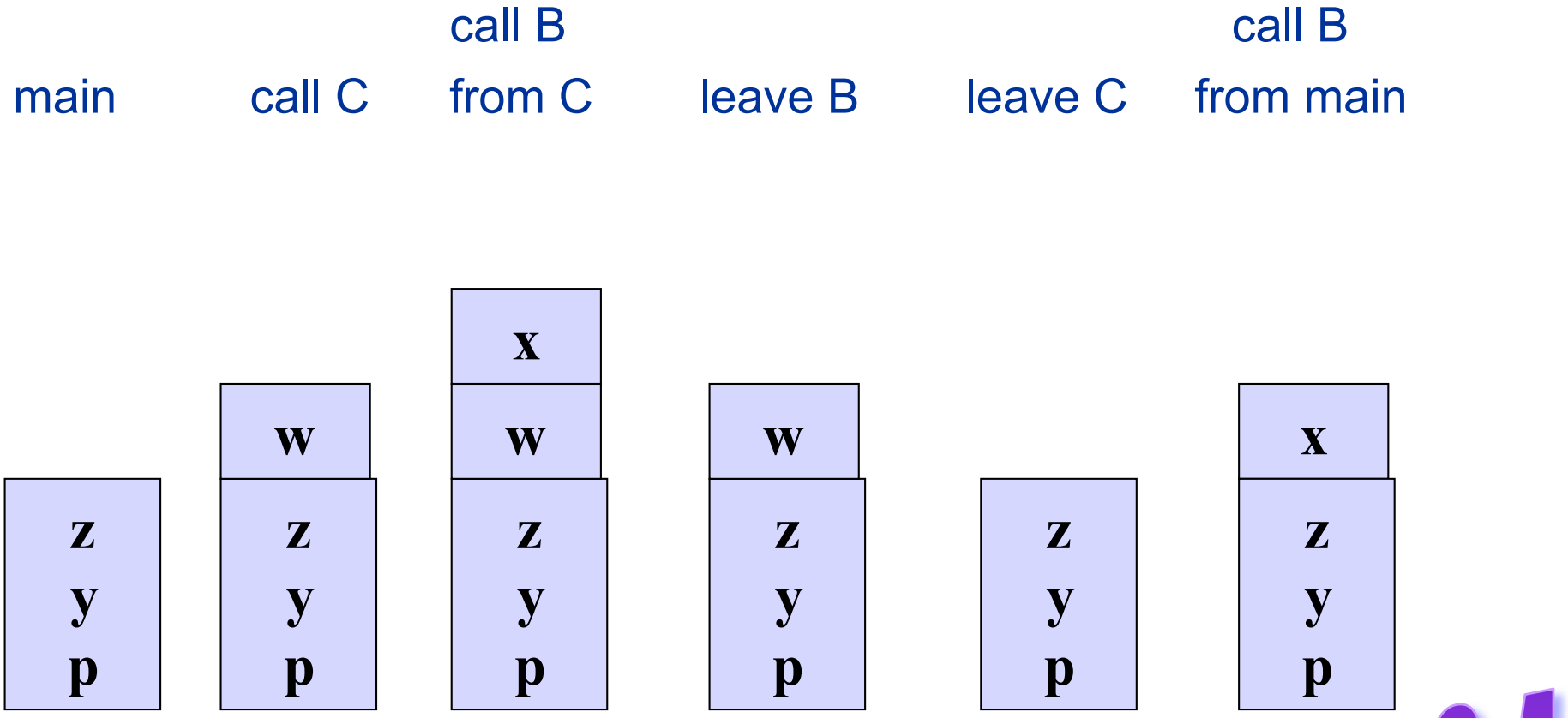
Stack storage allocation

Allocation of space to local variables on block entry is implemented using a stack.

The following example uses Pascal, but Java acts in the same way.

```
program main;
  var y, z : integer;
  var p : ^integer;
  procedure B;
    var x : integer;
  begin ... end {B};
  procedure C;
    var w : integer;
  begin ... B; new(p);... end {C};
begin ... C; ... B; ... end.
```

Stack storage allocation



Chapter 6.4

Stack storage allocation: activation records