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**Computer Architecture II**

**Q2**

Ackermann Result: 509

Procedure Calls: 172233

Maximum Register Window Depth: 511

The above values were the same for Register sets 6, 8 and 16.

However, as anticipated the amount of Overflow/Underflow differed:

6 Register sets:

Overflow: 84885

Underflow: 84885

8 Register sets:

Overflow: 83911

Underflow: 83911

16 Register sets:

Overflow: 80142

Underflow: 80142

**Q3**

Program run-time (average based off 100000 runs):

~147633 nanoseconds / ~0.000148 seconds