Execution Stack

- The stack is stored in RAM
- Register %esp stores address of top of current frame
- Register %ebp stores address of bottom of current frame

![Diagram of the Execution Stack]

- Top of Stack
- Stack pointer %esp
- Frame pointer %ebp
- Caller's Frame (current frame)
- Callee's Frame
- Earliest Frames

- Space for local & temporary vars, & saved register values
- Saved %ebp (caller's)
- Return address (saved PC value)
- Parameter 1
- Parameter $n$
- Lower memory address
- Call
- Higher memory address
- Return

Both caller & callee can access these:
- Caller sets up:
  - Pushes arg values
  - Pushes %eip (PC)

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