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1. Layout of the activation records: The activation records store the following local variables: the value of n and the return value. The activation record also contains an access link.
2. The activation records are placed dynamically allocated on the stack. This way the callee has the option to extend the partially built activation record and also deallocate itself.
3. See source code
4. The number of terminals is growing exponentially. At $n = 20$ the computations start taking a long time.