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. This is a mistake. Although the function looks just fine, its correctness crucially depends on having local variables for storing all the intermediate results. As shown, it will not correctly compute the Fibonacci function for n=4 or larger. However, if we move the declaration of s1 and s2 inside the function, it works perfectly.	 This sort of bug is very hard to find, and bugs like this are almost certain to arise whenever you use global variables to store intermediate results of a recursive function.



























































