

**Algorithm Design**  
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**Solution of Exercise C-1.30**

We use the recursion:  $\text{Multiply}(m, k) = m + \text{Multiply}(m, k - 1)$ , for  $2 \leq k \leq n$ , and  $\text{Multiply}(m, 1) = m$  (base of recursion). We start with the call  $\text{Multiply}(m, n)$ .