

## Exercise 64

For the following exercises, use the function values for  $f$  and  $g$  shown in Table 3 to evaluate each expression.

$x$	$f(x)$	$g(x)$
0	7	9
1	6	5
2	5	6
3	8	2
4	4	1
5	0	8
6	2	7
7	1	3
8	9	4
9	3	0

Table 3

$$g(g(2))$$

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### Solution

Notice from the table that  $g(2) = 6$  and  $g(6) = 7$ . Therefore,

$$g(g(2)) = g(6) = 7.$$