

# How to Write an Algorithm

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**Algorithm 1** Swapping two number

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**procedure** SWAP( $a, b$ )

$a \rightarrow temp$

$b := a$

$b \leftarrow temp$

**end procedure**

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$$\int_0^{\frac{\pi}{2}} \sin x \, dx = [-\cos x]_0^{\frac{\pi}{2}} = -\cos \frac{\pi}{2} - (-\cos 0) = 0 + 1 = 1$$

