Algorithm 3.1.25 Find the total number of 1 bits in a bit string.

1: **procedure** COUNT($s_1 s_2 \ldots s_n$: bit string)
2: $\quad$ $total \leftarrow 0$
3: $\quad$ **for** $i = 1$ to n **do**
4: $\quad\quad$ **if** $s_i = 1$ **then**
5: $\quad\quad\quad$ $total \mathrel{+}= 1$
6: $\quad\quad$ **end if**
7: $\quad$ **end for**
8: $\quad$ **return** $total$
9: **end procedure**