Exercise 2 — Pseudocode
CS 111

due September 4, before class

Number of Operation	Nature of Operation	Variables acted upon.	Variables receiving results.	Indication of change in the value on any Variable.	Statement of Results	Data			Working Variables		
						$^1V_1$ $\circ$ 0 0 0 1 $\boxed{1}$	$^1V_2$ $\circ$ 0 0 0 2 $\boxed{2}$	$^1V_3$ $\circ$ 0 0 0 4 $\boxed{n}$	$^0V_4$ $\circ$ 0 0 0 0 $\square$	$^0V_5$ $\circ$ 0 0 0 0 $\square$	$^0V_6$ $\circ$ 0 0 0 0 $\square$
1	$\times$	$^1V_2 \times {}^1V_3$	$^1V_4, {}^1V_5, {}^1V_6$	$\begin{cases} ^1V_2 = {}^1V_2 \\ ^1V_3 = {}^1V_3 \end{cases}$	$= 2n$ $\cdots\cdots$	$\cdots$	2	n	$2n$	$2n$	$2n$
2	$-$	$^1V_4 - {}^1V_1$	$^2V_4 \cdots\cdots$	$\begin{cases} ^1V_4 = {}^2V_4 \\ ^1V_1 = {}^1V_1 \end{cases}$	$= 2n-1$ $\cdots\cdots$	1	$\cdots$	$\cdots$	$2n-1$		
3	$+$	$^1V_5 + {}^1V_1$	$^2V_5 \cdots\cdots$	$\begin{cases} ^1V_5 = {}^2V_5 \\ ^1V_1 = {}^1V_1 \end{cases}$	$= 2n+1$ $\cdots\cdots$	1	$\cdots$	$\cdots$	$\cdots$	$2n+1$	
4	$\div$	$^2V_4 \div {}^2V_5$	$^1V_{11} \cdots\cdots$	$\begin{cases} ^2V_5 = {}^0V_5 \\ ^2V_4 = {}^0V_4 \end{cases}$	$= \dfrac{2n-1}{2n+1}$ $\cdots\cdots$	$\cdots$	$\cdots$	$\cdots$	0	0	$\cdots$