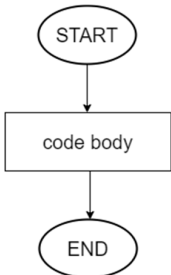


Pseudocode Cheat Sheet

VERB	Definition
START/END	Begin / finish code
SET	Set a variable
INPUT / DISPLAY	Obtain / Provide user data
GET / PUT	Obtain / Provide data other system
CALCULATE, COMPARE	Compute
INCREMENT / DECREMENT	Add / Subtract
CALL	Run function / subroutine

Symbol	Definition	Examples	
=	assign	i = 4	
==	is equal to	x == 4, X == K	IF x == 4
>	is greater than	x > 4	IF x > 4 then
>=	is greater than or equal to	x >= 6	LOOP WHILE x >= 6
<	is less than	value[Y] < 7	LOOP UNTIL value[Y] < 7
<=	is less than or equal to	value[] <=12	IF value[Y] <= 12 THEN
≠	not equal to	X ≠ 4, X ≠ K	
AND	logical AND	A AND B	IF x < 7 AND y > 2 THEN
OR	logical OR	A OR B	IF x < 7 OR y > 2 THEN
NOT	logical NOT	NOT A	IF NOT x = 7 THEN
mod	modulo	15 mod 7 = 1	IF value[Y] mod 7 = 0 THEN
div	integer part of quotient	15 div 7 = 2	IF value[Y] div 7 = 2 THEN

Operation	Flowchart example	Pseudocode example
sequential operations	 <pre> graph TD START([START]) --> Body[code body] Body --> END([END]) </pre>	START perform task1 perform task2 END

conditional operations	<pre> graph TD START([START]) --> SET3[SET x = 3;] SET3 --> IF{IF (x > 0)} IF -- true --> CB1[code body] IF -- false --> ELSE[ELSE code body] CB1 --> END([END]) ELSE --> END </pre>	<pre> START SET x = 3 IF x > 0 THEN DISPLAY "X is greater than zero" ELSE DISPLAY "X is not greater than zero" END IF END </pre>
while-loop	<pre> graph TD START([START]) --> SET0[SET i = 0] SET0 --> WHILE{WHILE (i < 5)} WHILE -- true --> CB[code body INCREMENT i;] CB --> WHILE WHILE -- false --> END([END]) </pre>	<pre> START WHILE i < 15 DISPLAY "i is less than 15" INCREMENT i ENDWHILE END </pre>
do-while-loop	<pre> graph TD START([START]) --> SET0[SET i = 0] SET0 --> DO[DO] DO --> CB[code body INCREMENT i] CB --> WHILE{WHILE (i < 5)} WHILE -- true --> DO WHILE -- false --> END([END]) </pre>	<pre> START REPEAT DISPLAY "i is less than 15" INCREMENT i UNTIL i < 15 END LOOP END </pre>
for-loop	<pre> graph TD START([START]) --> FOR{FOR (SET i=0; i < 5; INCREMENT i;)} FOR -- true --> CB[code body] CB --> FOR FOR -- false --> END([END]) </pre>	<pre> START LOOP COUNT from 0 to 5 DISPLAY "Counting 1 to 5" INCREMENT COUNT END LOOP END </pre>
foreach-loop	<pre> graph TD START([START]) --> SETX[SET[] x = 1, 2, 3;] SETX --> FOREACH{FOREACH (x)} FOREACH -- true --> CB[code body] CB --> FOREACH FOREACH -- false --> END([END]) </pre>	<pre> START SET[] x = 1, 2, 3 LOOP EACH x DISPLAY "Counting out x" END LOOP END </pre>