## Pseudocode Notation Reference

| Symbol | English | Explanation | Java Equivalent | $\mathrm{LAT}_{\mathrm{E}} \mathrm{X}$ |
| :---: | :---: | :---: | :---: | :---: |
| $a \leftarrow b$ | "gets" | assign to $a$ the value of $b$ | $=$ | \gets |
| $a \wedge b$ | "and" | takes the logical and of $a$ and $b$ | \&\& | \wedge |
| $a \vee b$ | "or" | takes the logical or of $a$ and $b$ | \|| | \vee |
| $\neg a$ | "not" | takes the negation of $a$ | ! | \neg |
| $a=b$ | "is equal to" | determines whether $a$ is equal to b | = | = |
| $a \neq b$ | "is not equal to" | determines whether $a$ is not equal to $b$ | != | \neq |
| $a<b$ | "is less than" | determines whether $a$ is less than b | < | < |
| $a \leq b$ | "is less than or equal to" | determines whether $a$ is less than or equal to $b$ | <= | \leq |
| $a>b$ | "is greater than" | determines whether $a$ is greater than $b$ | > | > |
| $a \geq b$ | "is greater than or equal to" | determines whether $a$ is greater than or equal to $b$ | >= | \geq |
| $a \approx b$ | "approximately" | symbolizes that $a$ is approximately equal to $b$ | N/A | \approx |
| $\lceil a\rceil$ | "ceiling" | yields the smallest integer greater than or equal to $a$ | N/A | \lceil,\rceil |
| $\lfloor$ \a | "floor" | yields the largest integer less than or equal to $a$ | N/A | \lfloor,\rfloor |
| $a \in A$ | "element of" | $a$ is an element of the set $A$ | N/A | \in |
| $A \subseteq B$ | "subset" | the set $A$ is a subset of the set $B$ | N/A | \subseteq |
| $A \subset B$ | "proper subset" | the set $A$ is a proper subset of the set $B$ | N/A | \subset |

