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$S \rightarrow \varepsilon \mid Q \mid N$

$Q \rightarrow (Q) \mid |Q| \mid -Q \mid Q + Q \mid Q - Q \mid Q * Q \mid Q/Q \mid Q^N \mid Q^{-N} \mid ROTATION(N, Q) \mid N \mid E \mid NE$

$E \rightarrow i \mid j \mid k$

$N \rightarrow NUMBER \mid WHOLENUMBER$