```
floating\ point ::= (non\ zero\ integer)`.`(fraction)
fraction ::= (middle\ sequence)|(fraction\ with\ exponent))
fraction\ with\ exponent ::= (non\ zero\ fraction)`E`(non\ zero\ integer)
non\ zero\ fraction ::= (middle\ sequence)(non\ zero\ digit)
non\ zero\ integer ::= `-`(non\ zero\ number)|non\ zero\ number
non\ zero\ number ::= (non\ zero\ digit)(middle\ sequence)
middle\ sequence ::= (any\ digit)(middle\ sequence)|\epsilon
any\ digit ::= `0`|non\ zero\ digit
non\ zero\ digit ::= `1'|`2'|`3'|`4'|`5'|`6'|`7'|`8'|`9`
```