

$$\begin{aligned}
M &::= NV \\
&\quad | V \\
NV &::= X \\
&\quad | (MM) \\
&\quad | (\text{mlet } (X) = M \text{ in } M) \\
V &::= B \mid N \mid CH \mid L \mid O \\
B &::= \#t \mid \#f \\
CH &::= \text{string} \\
N &::= \text{number} \\
L &::= (\lambda (X) M) \\
O &::= OB \mid ON \\
OB &::= OB1 \\
ON &::= ON1 \\
OB1 &::= \text{not} \\
ON1 &::= \text{add1} \\
T &::= (\rightarrow T T) \mid \text{num} \mid \text{bool} \mid \text{char} \\
X &::= \text{variable-not-otherwise-mentioned}
\end{aligned}$$