```
i \in \operatorname{Int} b \in \operatorname{Bool} x,y \in \operatorname{Var} op \in \operatorname{Prim} ::= + |-| * | < 	au \in \operatorname{Types} ::= \operatorname{bool} | \operatorname{int} | 	au \to 	au | 	au \operatorname{list} \Gamma \in \operatorname{Env} ::= \bullet | \Gamma, x : 	au e \in \operatorname{Exp} ::= i | b | x | e \ op \ e | \operatorname{if} \ e \ \operatorname{then} \ e = e \ \operatorname{in} \ e | \operatorname{fun} \ x \to e | \operatorname{letrec} \ x = \operatorname{fun} \ y \to e \ \operatorname{in} \ e | [] | e :: e | \operatorname{match} \ e \ \operatorname{with} \ [] \to e | x :: y \to e
```