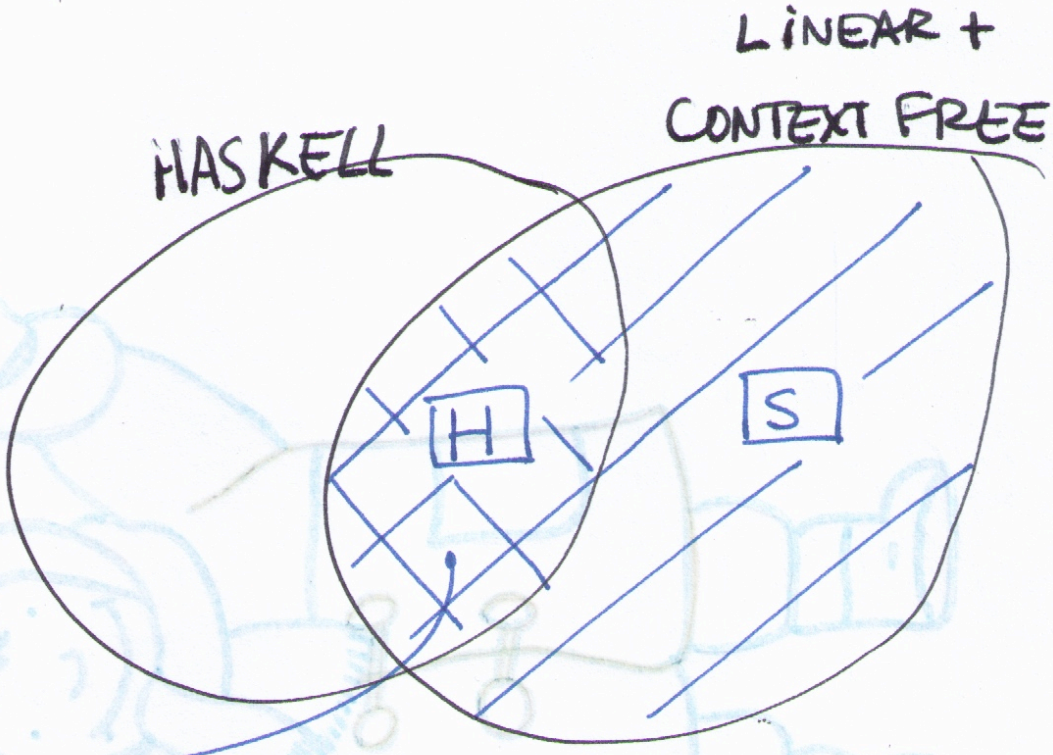

→ Estes programas devem compilar com o compilador de Haskell

precisam de novo p/ a linguagem

① ~ ⑨ - a ordem pela qual vamos implementar a linguagem

expressions

$e ::=$ [H] $()$ | n (integer) | $'c'$ (char) | true | false ①

| $e\ e$

| [H] (e, e) | [S] let $x_1, x = e$ in e ③

| [H] $C\ \ldots$ | [H S] case e of $(C_k\, x_1 \ldots x_{n_k} \to e_k)_{k=1}^{m}$ ④ ⑦

| [?] fork e ⑤

| [S] new T ④

| send $e\ e$ | receive e

| [S] select $\ell\ e$ ⑧

programs

$P ::=$ ε (empty)

{

| [H] data $D = (C_k\ T_1 \ldots T_{n_k})_{k=1}^{m}$ P ⑦

| [H] type $t = T$ P ⑦

| [H] $x : T$ P ①

| $x = e$ P

more expressions

see Haskell

$e ::=$ | $e \otimes e \mid \text{mod} \mid \text{rem}$ (2) $\otimes ::= + \mid - \mid / \mid * \mid \ldots$

| $e \oplus e$ $\oplus ::= \&\& \mid \mid\mid \mid \text{not}$

| if e then e else e (6)

| \ id -> e (7)

| $[e_1, \ldots, e_n]$ $(n \geq 0)$ | e : e (9)

x, id - identifiers - lower case (start with _)

C - constructor - starts with upper case
includes labels on session type choices