Module : LinesTest — Haskell Conversion Result $\boxed{\text{LinesTest1}}$

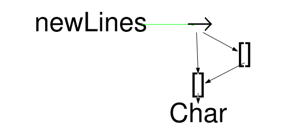
For more information see

`http://ist.unibw-muenchen.de/Lectures/FT2000/FP/Lines.html`

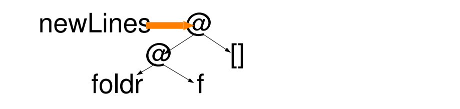
`http://ist.unibw-muenchen.de/kahl/HOPS/`

```
> newLines :: String -> [String]
> newLines = foldr f []
> f x xss | x == '\n'   =  "" : xss
>         | otherwise   =  g x xss
> g x [] = [[x]]
> g x (ys:yss) = (x:ys) : yss
```

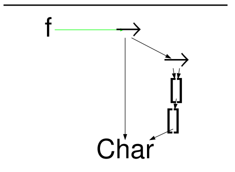
Decl: **newLines**



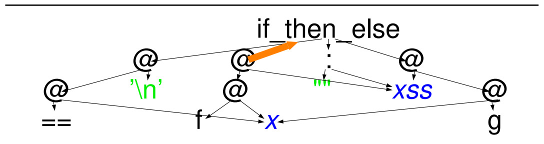
Rule: LinesTest:lhs:4::newLines



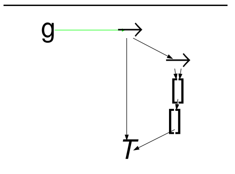
Decl: **f**



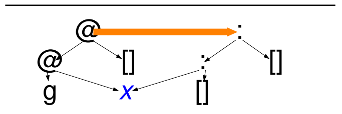
Rule: LinesTest:lhs:5::f



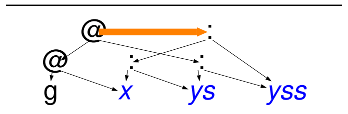
Decl: **g**



Rule: LinesTest:lhs:7::g

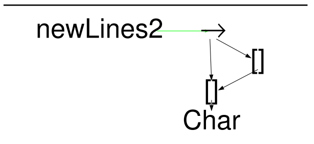


Rule: LinesTest:lhs:8::g

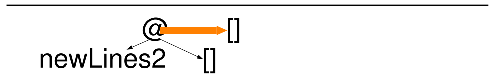



```
> newLines2 :: String -> [String]
> newLines2 [] = []
> newLines2 (x:xs) = f x (newLines2 xs)
```

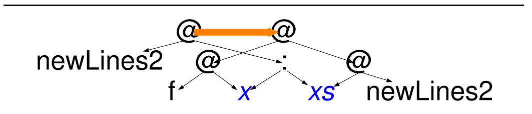
Decl: **newLines2**



Rule: LinesTest:lhs:11::newLines2

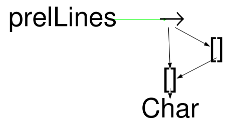


Rule: LinesTest:lhs:12::newLines2

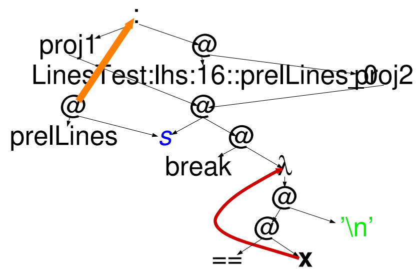


```
> prelLines :: String -> [String]
> prelLines "" = []
> prelLines s  = let (l, s') = break (== '\n') s
>                in  l : case s' of
>                          []       -> []
>                          (_:s'') -> prelLines s''
```

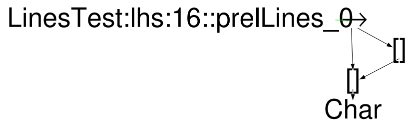
Decl: **prelLines**



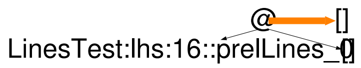
Rule: LinesTest:lhs:16::prelLines



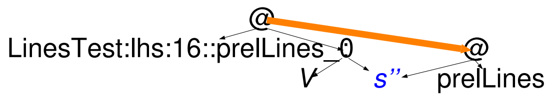
Decl: **LinesTest:lhs:16::prelLines_0**



Rule: LinesTest:lhs:18::LinesTest:lhs:16::prelLines_0

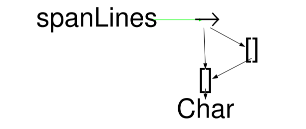


Rule: LinesTest:lhs:19::LinesTest:lhs:16::prelLines_0

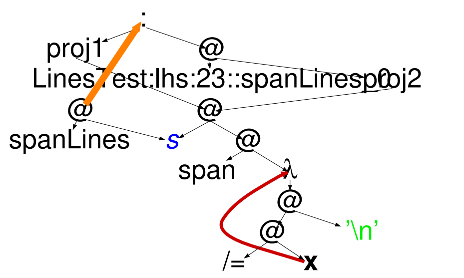


```
> spanLines :: String -> [String]
> spanLines "" = []
> spanLines s  = let (l, s') = span (/= '\n') s
>                in  l : case s' of
>                          []       -> []
>                          (_:s'') -> spanLines s''
```

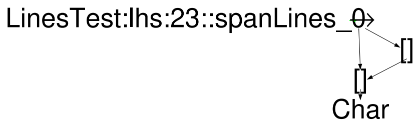
Decl: **spanLines**



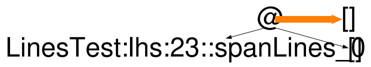
Rule: LinesTest:lhs:23::spanLines



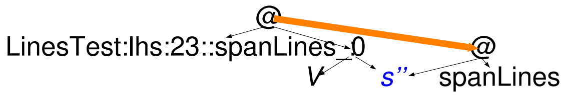
Decl: **LinesTest:lhs:23::spanLines_0**



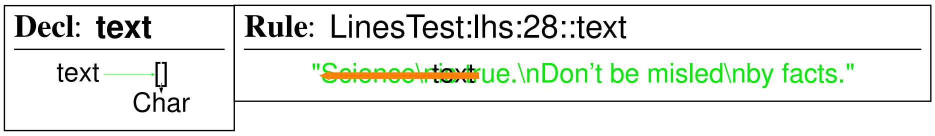
Rule: LinesTest:lhs:25::LinesTest:lhs:23::spanLines_0

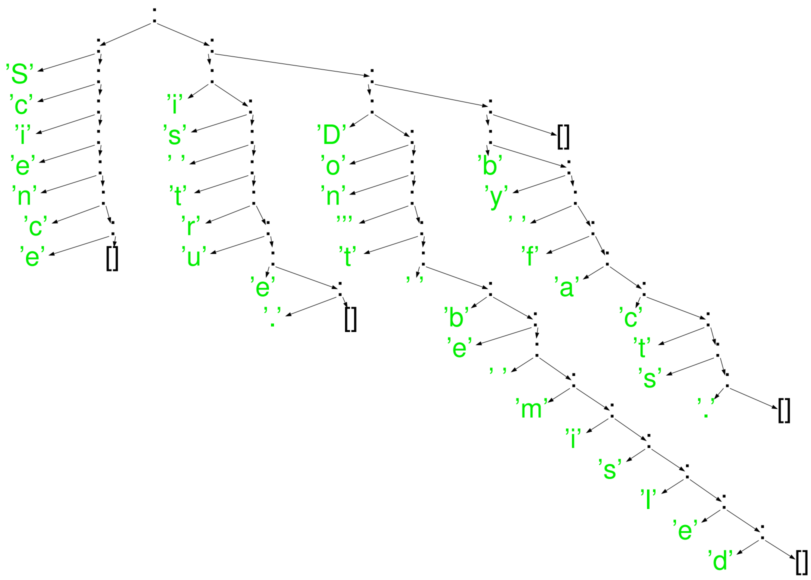


Rule: LinesTest:lhs:26::LinesTest:lhs:23::spanLines_0



```
> text = "Science\nis true.\nDon’t be misled\nby facts."
```





prelLines: 479 transformations (drawing 0) finished in 0.39 seconds

spanLines: 307 transformations (drawing 0) finished in 0.29 seconds

newLines: 257 transformations (drawing 0) finished in 0.55 seconds

newLines2: 255 transformations (drawing 0) finished in 0.62 secondsx