Advanced Functional Programming

Assignment 3 Pepijn Gramberg Frank Dedden

October 14, 2014

```
5.2 class A a class (A a) \Longrightarrow B a instance A Bool instance A a \Longrightarrow A (Maybe a) instance (A a, B a) \Longrightarrow A [a]
```

$$\begin{array}{c|c} \underline{i \ B \ Bool} & \underline{i \ A \ Bool} \\ \underline{\emptyset \vdash B \ Bool} & \underline{i \ A \ Bool} \\ \underline{\emptyset \vdash A \ Bool, \ B \ Bool} & \underline{i \ (A \ Bool, B \ Bool) \implies A \ [Bool]} \\ \\ \underline{\emptyset \vdash A \ [Bool]} & \underline{\emptyset \vdash A \ [Bool]} & \underline{i \ A \ [Bool] \implies A \ Maybe([Bool])} \\ \\ \end{array}$$