Challenge

Delegate A/S

November 12, 2015

Introduction

Types are very important because they prevent a lot of bugs. When we have bugs however a common technique for finding them is called `printf`-debugging, where we print different information, like variables, to figure out the state of the program.

Problem

Implement, in F#, a custom (type-safe) `printf` that will produce the following trace:

```
> myprintf [[AST of "%i %s\n"]] (fac 5) "lambdas";;
val it : string = "120 lambdas\n"
> myprintf [[AST of "%s world\n"]] "hello";;
val it : string = "hello world\n"
```