

# Idris Exercises: Part 3

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## Questions

1. Using `do` notation, write a program which reads two strings then displays the length of the longer string. It should have the following type:

```
displayLonger : IO ()
```

Write a main program which calls `displayLonger`.

2. Rewrite `displayLonger` using the effects library:

```
displayLonger : Eff () [STDIO]
```

Update main correspondingly.

3. Write a function which implements a simple “guess the number” game. It should have the following type:

```
guess : (target : Nat) -> Eff () [STDIO]
```

4. Write a program which chooses a random `Nat` then invokes `guess`. It should have the following type:

```
runGuess : Eff () [RND, STDIO]
```

(*Hint:* You can convert between numeric types using `cast`)