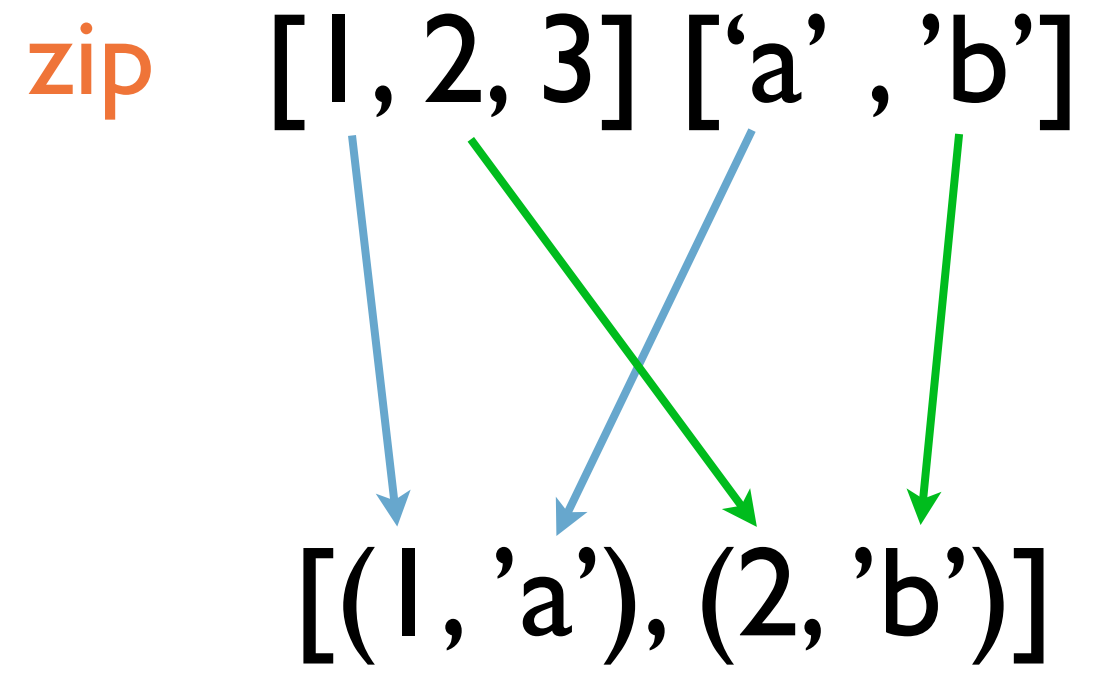


Sample Code

Zip



Take two lists and zip them together such that, corresponding elements of each list are paired together. Pair only until the end of the shorter list.



```
zip' :: [a] -> [b] -> [(a,b)]
zip' _ [] = []
zip' [] _ = []
zip' (x:xs) (y:ys) = (x,y) : zip' xs ys
```

[] = Empty List _ = Ignore

[x] = List of type x

(a,b) = Pair of type a and b (head:tail)

Short Lines Only



Make a program that takes some input and prints out only those lines that are shorter than 10 characters.

```
main = interact shortLinesOnly
```

```
shortLinesOnly :: String -> String
```

```
shortLinesOnly input =
```

```
    let allLines = lines input
```

```
        shortLines = filter (\line -> length line < 10) allLines
```

```
        result = unlines shortLines
```

```
    in result
```

1

```
main = interact (unlines . filter ((<10) . length) . lines)
```

2

```
interact :: (String -> String) -> IO ()
```

```
lines :: String -> [String]
```

```
unlines :: [String] -> String
```

```
(.) :: (b -> c) -> (a -> b) -> a -> c
```


Win with Haskell