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```

Create a list containing all integers within a given range.

The following does the same but without using a reverse function

diff = abs \$l - r

or, a generic and shorter version of the above

```
range :: (Ord a, Enum a) => a -> a -> [a]
range a b | (a == b) = [a]
range a b = a:range ((if a < b then succ else pred) a) b

or with scanl

range l r = scanl (+) l (replicate (l - r) 1)

with support for both directions

range l r = scanl op l $ replicate diff 1
    where
    op = if l < r then (+) else (-)</pre>
```

Since there's already syntactic sugar for ranges, there's usually no reason to

define a function like 'range' in Haskell. In fact, the syntactic sugar is implemented using the enumFromTo function, which is exactly what 'range' should be.

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