U29JSAR9S : I should ask more questions in this channel, getting lots of good suggestions :slightly_smiling_face:
U29JSAR9S : in this case though I tried that and I think the function is cleaner moving the Maybe.map inside the `toActualValue` function
U48AEBJQ3 : I would suggest against that. If you want to clean it up, make another helper function to give it a cleaner name.
U29JSAR9S : the function name for `toActualValue` is a bit rubbish though, I know :slightly_smiling_face:
U48AEBJQ3 : Regardless of that, you are mixing concerns by having it deal with `Maybe`. It's good practice to write the function that doesn't need to know about how to take the `Maybe` apart and then inject that information using `map` or `andThen`
U48AEBJQ3 : Also, I think that you can go `Bitwise.shiftLeftBy &lt;&lt; (*) 4` to raise something to the appropriate power.
U29JSAR9S : that makes sense
U23SA861Y : instead of indexed map I'd probably use a fold there
U23SA861Y : `foldr (\v (p,a) -&gt; (p*16,a+p*v)) (1,0) digits`
U23SA861Y : likewise a maybe list function can be constructed```
maybeList: List (Maybe a) -> Maybe (List a)
maybeList l =
  let
   mapped = List.filterMap identity
  in
   if List.length mapped = List.length l then
      Just mapped
   else
     Nothing
```

U29JSAR9S : so you're suggesting something like:```
hexToDec : String -&amp;gt; Maybe Int
hexToDec hex =
    String.split "" hex
        |&amp;gt; List.map hexCharToDec
        |&amp;gt; maybeList
        |&amp;gt; (Maybe.map &amp;lt;&amp;lt; Tuple.second &amp;lt;&amp;lt; foldr (\v (p,a) -&amp;gt; (p*16,a+p*v)) (1,0))

```
?

U23SA861Y : it would do the thing, I'd probably split out the `Tuple.second &lt;&lt; foldr` into a named function because it's a bit dense and give it a nice name
U23SA861Y : accumlate list
U23SA861Y : or have it be accumulateWithStride and have the 16 come in as a parameter
U23SA861Y : The only thing not specified would be what happens to the empty list
U48AEBJQ3 : I think I would like `sumDigits : Int -&gt; List Int -&gt; Int` better.
U48AEBJQ3 : But names are hard.
U29JSAR9S : just trying to test it out as I'm not convinced it does actually solve it (I think it might miss the case when you don't multiply by a power at all for the first hex digit) - getting:
```
the argument to function `length` is causing a mismatch.

120|            List.length mapped
                       ^^^^^^

Function `length` is expecting the argument to be:

    List b

But it is:

    List (Maybe b) -&amp;gt; List b
```

for the maybeList function - and I'm too tired to figure out whats up myself :slightly_smiling_face:

U23SA861Y : ahh the line should be `List.filterMap identity l`
U23SA861Y : my bad
U23SA861Y : well the first digit should be multplied by one, the second by 16 and so on
U29JSAR9S : ah, of course
U23SA861Y : the one thing it does to would be return 0 for an empty list as opposed to say Nothing
U48AEBJQ3 : How about```
maybeList : List (Maybe a) -> Maybe (List a)
maybeList =
    List.foldr (Maybe.map2 (::)) (Just [])
```

U23SA861Y : hmm, yes I think that would do what you want
U29JSAR9S : cheers guys, been interesting working through this with you - my understanding of how to handle Maybe's has definitely come along this evening!
U23SA861Y : no problem, and good luck
```