```
U48AEBJQ3: <@U2SR9DL7Q> Are you just trying to write `List.map2 (List.map &lt;&lt; (,)) xs (tails xs) |&gt;
List.concat`?
U2SR9DL7Q: Okay, so we're almost there. I have ""
createDominoes: Int -> List Domino
createDominoes highest =
  List.map (\x -> List.map (\y -> Domino x y < List.range x highest) ) &lt; List.range 0 highest
The `Domino` here is just a type defined by two integers.
But I've messed it up in the inner function so the compiler is yelling
a -> Domino
But the left argument is:
Domino
U2SR9DL7Q: I just added a new comment in beginner channel that adds more clarity. But you're speaking in
haskellian right now, and I haven't done that in awhile. It's honestly going to take me a few minutes to parse that
statement and then I can tell you.
U3SJEDR96: I think you wnt to move that `)`: `List.map (\x -> List.map (\y -> Domino x y) <| List.range x highest
) < List.range 0 highest`
U48AEBJQ3: <a href="https://ellie-app.com/3KQ5Rq7VdHNa1/0">https://ellie-app.com/3KQ5Rq7VdHNa1/0</a>?
U2SR9DL7Q: That... worked? It says I've created a list of a list of dominoes. But If I can just flatten that, I should be
U3SJEDR96: `concatMap` to the rescue
U2SR9DL7Q: <@U48AEBJQ3> your solution is probably the more clever, FP way to do it, but I'll have to sit and study
U3SJEDR96: or what <@U48AEBJQ3> did, which is nice:slightly_smiling_face:
U3SJEDR96: the observation that for every element in the range, you only want to make combinations of the element
and everything that follows is clever:slightly_smiling_face:
U2SR9DL7Q: Yes, but it's very imperative thinking. I've just made the elmy equivalent of ""
for i in range(0, num):
  for j in range(i, num):
U3SJEDR96: yeah, and <@U48AEBJQ3> uses the same idea in their implementation. I was actually remarking on
his code, even though you'd done the same thing (but I hadn't realized it because I was trying to spot the bad code,
rather than understand it)
U48AEBJQ3: I guess the function-fu of `List.map <&lt; (,)` is probably a bit much for learning. You can read it as:```
x ys ->
  List.map (y - xgt; (x, y)) ys
U57KYFW67: ```[1,2,3,4,5] |> andThen (\x -> [1,2,3,4,5] |> andThen (\y -> if x < y then [(x, y)] else []))
[(1,2),(1,3),(1,4),(1,5),(2,3),(2,4),(2,5),(3,4),(3,5),(4,5)]
: List ( number, number )
U57KYFW67: (how do I do code blocks in Slack??)
U48AEBJQ3: triple backtick on its own line before and after the block
```

U57KYFW67: tvtv

U2SR9DL7Q: <@U48AEBJQ3> that makes it all much clearer. Unfortunately I never did enough haskell to get comfortable with all the inline functions. I'll remember this one now though.

U57KYFW67: That code I posted does what the OP wanted. There's only two tricks to know: `andThen` allows you do iterate in a way a bit analogous to a for loop and the `if x < y` condition will either append `(x,y)` or else it will append nothina.

U57KYFW67: (to be realllly handwavy)

U2SR9DL7Q: <@U57KYFW67> you got it to work! that's what I tried initially, but the exact nature of what `andThen` is

(binding operation for Lists that are monad typeclasses) makes me wary of using it too much. U57KYFW67: `andThen` is pretty neat, but the name doesn't make much sense.