```
U23SA861Y: In this case you would have a list of participants and you want a list of values
U23SA861Y: so you call `List.map` with a function that transforms a single participant into a `Json.Encode.Value`
U23SA861Y: you can then pass that list of values to `Json.Encode.list` to construct a new value
U6D3ERLA1::bulb:
U6D3ERLA1: that makes sense
U6D3ERLA1: pipe it back to values
U6D3ERLA1: <a href="https://gist.github.com/254b044a54ec101c5ed7392eb8df5677">https://gist.github.com/254b044a54ec101c5ed7392eb8df5677</a>
U6D3ERLA1: <@U0CQ254F5> <@U23SA861Y> Thanks for data pipeline 101: train:
U1ZFF0E5P: Hi, I'm trying to make the following decoder polymorphic instead of hard-coded to String for result, but I
can't figure out how to do it "type alias DictItem =
  { result : String
   entities : Entities
dictItemDecoder: Decoder DictItem
dictItemDecoder =
  decode DictItem
     |&at: required "result" string
     |> required "entities" entitiesDecoder```
U1ZFF0E5P: so I changed the alias to this, but I'm stuck at the decoder level: "type alias DictItem a = { result: a
  , entities : Entities
  };;;
U1ZFF0E5P: I tried this but it obviously doesnt work ```dictItemDecoder: Decoder (DictItem a)dictItemDecoder =
  decode (DictItem a)
     |> required "result" a
     |&at: required "entities" entitiesDecoder```
U153UK3FA: <@U1ZFF0E5P> how do you expect the compiler to infer the type of `a`?
U1ZFF0E5P: that is a very good question
U1ZFF0E5P: essentially I'm moving all my ids from strings to wrapped types like so: "type StudentCourseClassId =
StudentCourseClassId String```
U1ZFF0E5P: but yeah thinking about it there is no way for the compiler to guess that
U1ZFF0E5P: so either I "duplicate" this decoder for each id type, or I can probably put them in a union type and use
this
U23SA861Y: ok so one thing about elm is that it's not polymorphic, if you want to make something type agnostic you
will have to have a parameter which passes down how to deal with that type.
U1ZFF0E5P: yeah, I'm still struggling to think this way (coming from dynamic languages)
U1ZFF0E5P: is this where typeclasses would be useful? as in I can pass down "a" and define on it's typeclass level
how to be decoded?
U1ZFF0E5P: never used any of this stuff, just heard about it
```

U23SA861Y: well there are typed languages can be polymorphic, elm just chose not to be

U23SA861Y: yeah, you would have some thing like JSONEncodable or something

U23SA861Y: here your dictItemDecoder would take a function