## **Example Input/Output Pair**

Display input/output pairs from random executions:

Code from ReferenceIO.java:86 executed in 0.06 seconds (0.000 gc):

```
@Nonnull final SimpleEval eval = SimpleEval.run(layer, inputPrototype);
              Tensor evalOutput = eval.getOutput();
              String format = String.format("------\nInput: \n[%s]\n-------
                           Arrays.stream(inputPrototype).map(t -> t.prettyPrint()).reduce((a, b) -> a + ",\r
                           Arrays.toString(evalOutput.getDimensions()),
                           evalOutput.prettyPrint(),
                           Arrays.stream(eval.getDerivative()).map(t -> t.prettyPrint()).reduce((a, b) -> a
              eval.freeRef();
              return format;
Returns:
              ______
              Input:
              [ [
                                         [ [ 1.572, 1.036, -0.252, -1.18, 0.144, -1.252, 1.58, -0.9, ... ], [ 1.42, -1
                                         [ [ 0.476, -0.7, -0.82, -0.052, -1.148, -1.332, 0.94, -0.912, \dots ], [ 1.936]
                                         [ [ 0.728, -0.676, 0.552, -1.348, 1.424, 1.512, 0.392, -1.756, ... ], [ 1.132]
                                         [ [ -0.348, 1.08, -0.928, 0.668, -1.46, 0.888, -1.84, 0.056, ... ], [ 1.132, ... ]
                                         [ [ -1.536, -1.184, 1.58, 0.632, 0.468, -1.548, -0.468, 0.988, \dots ], [ -0.82, -0.468, -0.468, 0.988, \dots ], [ -0.82, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0.468, -0
                                         [ [-1.412, 1.444, -0.44, -0.252, -0.628, -1.84, 0.936, 1.38, \dots ], [1.268]
                                         [ [ 1.764, 1.104, -1.344, -0.364, 1.076, -1.988, -0.436, 1.052, \dots ], [ -0.784, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.436, -0.43
                                         [ [ -0.352, 0.38, 0.928, 1.888, -1.548, -1.604, 0.776, -1.392, ... ], [ -1.49]
              ]]
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             Output:
              [125, 84, 192]
                                          [ \ [ \ 1.1113888025283813 , \ 0.7323962450027466 , \ -0.1781468391418457 , \ -0.834173619 ] ] ] 
                                          [ \ [ \ 0.33654507994651794 \,, \ -0.4949083626270294 \,, \ -0.5797377228736877 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.0367634 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.036764 \,, \ -0.
                                          [ \ [ \ 0.5146782398223877 \,, \ -0.47791364789009094 \,, \ 0.39021891355514526 \,, \ -0.952898! ] 
                                          \hbox{ [ [ -0.24603921175003052, \ 0.7635054588317871, \ -0.6560489535331726, \ 0.47222313] } \\
                                          [ \ [ \ -0.9982321262359619 , \ 1.0208326578140259 , \ -0.31104227900505066 , \ -0.1781350 ] ] ] 
                                          \hbox{ [ [ 1.2469816207885742, 0.7804200649261475, -0.950050413608551, -0.257301092] } 
                                         1
              _____
             Derivative:
                                          [ \ [ \ 0.7069864869117737, \ 0.7068858742713928, \ 0.7069385647773743, \ 0.7069804072] ] 
                                          [ \ [ \ 0.7070875763893127 , \ 0.7069467306137085 , \ 0.7068943977355957 , \ 0.7069835066 ] ] ] \\
                                          [ \ [ \ 0.7070080041885376 , \ 0.7070234417915344 , \ 0.7068876028060913 , \ 0.70693528657 ] ] 
                                         [\ [\ 0.7068566679954529,\ 0.7068529725074768,\ 0.706981360912323,\ 0.706841588020]
                                          [ \ [ \ 0.7068073153495789 , \ 0.7070595622062683 , \ 0.7069016098976135 , \ 0.70688915257 ] ] ] \\
                                         [ [ 0.7069321870803833, 0.7069190740585327, 0.706921398639679, 0.70683348178{
              ]
```