sequence.concat_from_sequence

```
Copy fnconcat_from_sequence(sequence:Array>, axis:i32, new_axis:Option)->Tensor;
```

Concatenate a sequence of tensors into a single tensor.

Args

- sequence
- (Array>
-) - The input sequence.
- axis
- (i32
-) - Axis to concat on.
- new_axis
- (Option
-) - Optionally added new axis.
-

Panics

- Panics if new_axis not 0 or 1 (if value provided).
- Panics if axis not in accepted ranges.
- Panics if sequence length is not greater than 1.
-

Returns

A newTensor concatenated tensor from the input tensor sequence.

Example

```
Copy usecore::array::{ArrayTrait,SpanTrait};

useorion::operators::tensor::{TensorTrait,Tensor,U32Tensor};

fnconcat_example()->Tensor { lettensor1=TensorTrait::new(shape:array![2,2].span(), data:array![0,1,2,3].span(),); lettensor2=TensorTrait::new(shape:array![2,2].span(), data:array![0,1,2,3].span(),);

letmutsequence=ArrayTrait::new(); sequence.append(tensor1); sequence.append(tensor2);

letresult=TensorTrait::concat_from_sequence(sequence:sequence, axis:0, new_axis:Option::Some(0)); returnresult; }
```

                [[0.1.] [2.3.], [0.1.] [2.3.]]

result.shape

                (4,2)

letresult=TensorTrait::concat_from_sequence(sequence:sequence, axis:1, new_axis:Option::Some(0)); returnresult; }

                [[0.1.,0.,1.] [2.3.,2.,3.]]

result.shape

                (2,4)
```
```

Last updated3 months ago