

# 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.
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## 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)
```

...

[Previous sequence.sequence\\_insert](#) [Next Models](#)

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