tensor.reduce_sum

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```

Copy fnreduce_sum(self:@Tensor, axis:usize, keepdims:bool)->Tensor;

```

Reduces a tensor by summing its elements along a specified axis.

Args

- self
- (@Tensor
-) - The input tensor.
- axis
- (usize
-) - The dimension to reduce.
- keepdims
- (bool
-) - If true, retains reduced dimensions with length 1.
-

Panics

- Panics if axis is not in the range of the input tensor's dimensions.
-

Returns

A newTensor instance with the specified axis reduced by summing its elements.

Examples

```

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

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

fnreduce_sum_example()->Tensor { lettensor=TensorTrait::::new( shape:array![2,2,2].span(), data:array!
[0,1,2,3,4,5,6,7].span(), );

// We can call reduce_sum function as follows. returntensor.reduce_sum(axis:0, keepdims:false); }

                    [[4,6],[8,10]]

```

Previous tensor.transpose Next tensor.argmax

Last updated3 months ago