tensor.reduce_log_sum

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```

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

```

Computes the log sum of the input tensor's elements along the provided axes.

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,FP16x16Tensor}; useorion::numbers::{FixedTrait,FP16x16};

fnreduce_log_sum()->Tensor {

letmutsizes=ArrayTrait::new(); sizes.append(2); sizes.append(2); sizes.append(2);

letmutdata=ArrayTrait::new(); data.append(FixedTrait::new_unscaled(1,false));
data.append(FixedTrait::new_unscaled(2,false)); data.append(FixedTrait::new_unscaled(3,false));
data.append(FixedTrait::new_unscaled(4,false)); data.append(FixedTrait::new_unscaled(5,false));
data.append(FixedTrait::new_unscaled(6,false)); data.append(FixedTrait::new_unscaled(7,false));
data.append(FixedTrait::new_unscaled(8,false));

lettensor=TensorTrait::::new(sizes.span(), data.span());

Wecan call reduce_log_sum functionasfollows. returntensor.reduce_log_sum(axis:2, keepdims:false); }

                [[0x11938,0x1f203], [0x265d9,0x2b540]]

```

Previous tensor.erf Next tensor.unique

Last updated1 month ago