tensor.log

```

Copy fnlog(self:@Tensor)->Tensor;

```

Computes the natural log of all elements of the input tensor.

! y i = l o g (x i) y_i=log({x_i})

Args

- self
- (@Tensor
-) - The input tensor.
-

Returns

Returns a new tensor inT with the natural log of the elements of the input tensor.

Type Constraints

Constrain input and output types to fixed point tensors.

Examples

```

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

useorion::operators::tensor::{TensorTrait,Tensor,FP8x23Tensor}; useorion::numbers::{FP8x23,FixedTrait};

fnlog_example()->Tensor { lettensor=TensorTrait::::new( shape:array![2,2].span(), data:array![
FixedTrait::new_unscaled(0,false), FixedTrait::new_unscaled(1,false), FixedTrait::new_unscaled(2,false),
FixedTrait::new_unscaled(100,false), ] );

// We can call log function as follows. returntensor.log(); }

                [[0,5814538,9215825,38630966]] // The fixed point representation of /// [[0, 0.693147,
                1.098612, 4.605170]]

```

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Last updated1 month ago