tensor.exp

```

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

```

Computes the exponential of all elements of the input tensor.

! y i = e x i y_i=e^{x_i}

Args

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

Returns

Returns a new tensor inT with the exponential 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};

fnexp_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(3,false), ] );

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

[[8388608,22802594],[61983844,168489688]] // The fixed point representation of // [[1,
2.718281],[7.38905, 20.085536]]

```

Previous tensor.matmul Next tensor.log

Last updated1 month ago