

tf.sequence_mask

```
sequence_mask(  
    lengths,  
    maxlen=None,  
    dtype=tf.bool,  
    name=None  
)
```

Defined in [tensorflow/python/ops/array_ops.py](#).

See the guide: [Tensor Transformations > Slicing and Joining](#)

Returns a mask tensor representing the first N positions of each cell.

If **lengths** has shape **[d_1, d_2, ..., d_n]** the resulting tensor **mask** has dtype **dtype** and shape **[d_1, d_2, ..., d_n, maxlen]**, with

```
mask[i_1, i_2, ..., i_n, j] = (j < lengths[i_1, i_2, ..., i_n])
```

Examples:

```
tf.sequence_mask([1, 3, 2], 5) # [[True, False, False, False, False],  
    # [True, True, True, False, False],  
    # [True, True, False, False, False]]  
  
tf.sequence_mask([[1, 3], [2, 0]]) # [[[True, False, False],  
    # [True, True, True]],  
    # [[True, True, False],  
    # [False, False, False]]]
```

Args:

- **lengths**: integer tensor, all its values \leq maxlen.
- **maxlen**: scalar integer tensor, size of last dimension of returned tensor. Default is the maximum value in **lengths**.
- **dtype**: output type of the resulting tensor.
- **name**: name of the op.

Returns:

A mask tensor of shape **lengths.shape + (maxlen,)**, cast to specified dtype.

Raises:

- **ValueError**: if **maxlen** is not a scalar.

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