

## tf.train.input\_producer

```
input_producer(  
    input_tensor,  
    element_shape=None,  
    num_epochs=None,  
    shuffle=True,  
    seed=None,  
    capacity=32,  
    shared_name=None,  
    summary_name=None,  
    name=None,  
    cancel_op=None  
)
```

Defined in [tensorflow/python/training/input.py](#).

See the guide: [Inputs and Readers > Input pipeline](#)

Output the rows of `input_tensor` to a queue for an input pipeline.

★ **Note:** if `num_epochs` is not `None`, this function creates local counter epochs. Use `local_variables_initializer()` to initialize local variables.

## Args:

- `input_tensor`: A tensor with the rows to produce. Must be at least one-dimensional. Must either have a fully-defined shape, or `element_shape` must be defined.
- `element_shape`: (Optional.) A `TensorShape` representing the shape of a row of `input_tensor`, if it cannot be inferred.
- `num_epochs`: (Optional.) An integer. If specified `input_producer` produces each row of `input_tensor` `num_epochs` times before generating an `OutOfRange` error. If not specified, `input_producer` can cycle through the rows of `input_tensor` an unlimited number of times.
- `shuffle`: (Optional.) A boolean. If true, the rows are randomly shuffled within each epoch.
- `seed`: (Optional.) An integer. The seed to use if `shuffle` is true.
- `capacity`: (Optional.) The capacity of the queue to be used for buffering the input.
- `shared_name`: (Optional.) If set, this queue will be shared under the given name across multiple sessions.
- `summary_name`: (Optional.) If set, a scalar summary for the current queue size will be generated, using this name as part of the tag.
- `name`: (Optional.) A name for queue.
- `cancel_op`: (Optional.) Cancel op for the queue

## Returns:

A queue with the output rows. A `QueueRunner` for the queue is added to the current `QUEUE_RUNNER` collection of the current graph.

## Raises:

- `ValueError` : If the shape of the input cannot be inferred from the arguments.

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