# tf.train.maybe_shuffle_batch

```
maybe_shuffle_batch(
    tensors,
    batch_size,
    capacity,
    min_after_dequeue,
    keep_input,
    num_threads=1,
    seed=None,
    enqueue_many=False,
    shapes=None,
    allow_smaller_final_batch=False,
    shared_name=None,
    name=None
)
```

Defined in `tensorflow/python/training/input.py`.

See the guide: Inputs and Readers > Input pipeline

Creates batches by randomly shuffling conditionally-enqueued tensors.

See docstring in `shuffle_batch` for more details.

## Args:

- `tensors`: The list or dictionary of tensors to enqueue.
- `batch_size`: The new batch size pulled from the queue.
- `capacity`: An integer. The maximum number of elements in the queue.
- `min_after_dequeue`: Minimum number elements in the queue after a dequeue, used to ensure a level of mixing of elements.
- `keep_input`: A `bool` Tensor. This tensor controls whether the input is added to the queue or not. If it is a scalar and evaluates `True`, then `tensors` are all added to the queue. If it is a vector and `enqueue_many` is `True`, then each example is added to the queue only if the corresponding value in `keep_input` is `True`. This tensor essentially acts as a filtering mechanism.
- `num_threads`: The number of threads enqueuing `tensor_list`.
- `seed`: Seed for the random shuffling within the queue.
- `enqueue_many`: Whether each tensor in `tensor_list` is a single example.
- `shapes`: (Optional) The shapes for each example. Defaults to the inferred shapes for `tensor_list`.
- `allow_smaller_final_batch`: (Optional) Boolean. If `True`, allow the final batch to be smaller if there are insufficient items left in the queue.
- `shared_name`: (Optional) If set, this queue will be shared under the given name across multiple sessions.
- `name`: (Optional) A name for the operations.

## Returns:

A list or dictionary of tensors with the types as `tensors`.

Raises:

- `ValueError`: If the `shapes` are not specified, and cannot be inferred from the elements of `tensors`.

---