FLATTEN

CLASS torch.nn.Flatten(*start_dim=1*, *end_dim=- 1*) [SOURCE]

Flattens a contiguous range of dims into a tensor. For use with `Sequential`.

Shape:

- Input: $(*, S_{\text{start}}, \ldots, S_i, \ldots, S_{\text{end}}, *)$, where S_i is the size at dimension i and $*$ means any number of dimensions including none.
- Output: $(*, \prod_{i=\text{start}}^{\text{end}} S_i, *)$.

Parameters:

- **start_dim** (*int*) – first dim to flatten (default = 1).
- **end_dim** (*int*) – last dim to flatten (default = -1).

Examples::

```
>>> input = torch.randn(32,
1, 5, 5)
>>> # With default parameters
>>> m = nn.Flatten()
>>> output = m(input)
>>> output.size()
torch.Size([32, 25])
>>> # With non-default
parameters
>>> m = nn.Flatten(0, 2)
>>> output = m(input)
>>> output.size()
torch.Size([160, 5])
```