

map()	flatMap()
The function passed to map() operation returns a single value for a single input.	The function you pass to flatmap() operation returns an arbitrary number of values as the output.
One-to-one mapping occurs in map().	One too many mapping occurs in flatMap().
Only perform the mapping.	Perform mapping as well as flattening.
Produce a stream of value.	Produce a stream of stream value.
map() is used only for transformation.	flatMap() is used both for transformation and mapping.

can be used where we have to flatten or transform out the string, as
flatMap: when we have to flatten or transform out the string as we cannot flatten our string using map().

```

1 // flatMap()
2
3 List<Integer> flatList
4     = number.stream()
5         .flatMap(list -> list.stream())
6         .collect(Collectors.toList());
7
8 // printing the list
9 System.out.println("List generate by flatMap-"
10                    + flatList);

```

Output

```

List of list-[[1, 2], [3, 4], [5, 6], [7, 8]]
List generate by flatMap-[1, 2, 3, 4, 5, 6, 7, 8]

```