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\expclass{abc}{mmfa}
To demonstrate this, we use a simple topology of three nodes with two directed edges:
\expline{abc}{the edge from A to B has a capacity of 1 unit}, and the
\expline{abc}{the edge from B to C has a capacity of 1 unit}.

\expinstance{abc-one}{abc}
In the first experiment, we start the following flows:
\expline{abc-one}{one from A to B} (path is A$\rightarrow$B),
\expline{abc-one}{one from B to C} (path is B$\rightarrow$C), and
\expline{abc-one}{one from A to C} (path is A$\rightarrow$B$\rightarrow$C).
This results in a max-min fair allocation of
\expincludetext{abc-one}{flow-allocation-A-B.txt},
\expincludetext{abc-one}{flow-allocation-B-C.txt} and
\expincludetext{abc-one}{flow-allocation-A-C.txt} for each.

\expinstance{abc-vary}{abc}
However, say we increase the number of flows from A to B. What would happen to the flow from B to C? In the second experiment, as before, we start
\expline{abc-vary}{one flow from B to C} and
\expline{abc-vary}{one flow from A to C}.
\expline{abc-vary}{We vary the number of flows from A to B between 1 and 4}.
The addition of extra flows from A to B results in the flow from A to C being bottlenecked there, resulting in the flow from B to C being allocated more.

\begin{center}
\expincludegraphics[width=4.7cm]{abc-vary}
{num-flows-A-B-vs-flow-allocation-B-C.pdf}
\end{center}
```

All text in this color will print as it is in the final PDF.

Experiment class abc declared to extend empty root class mmfa.
This can be done any time before adding explines / expincludes.

These two explines are added to expclass abc.
They parametrize the capacities of certain edges.

We instantiate expclass abc to create its first experiment, abc-one.

These three explines are added to abc-one.
Each of these specifies a flow added to the experiment.

We add three text-result placeholders.
These will be filled in by reading files with the resulting flow allocation.

We now set up our second experiment instance, abc-vary.

These three explines describe the new flow scenario.
The third expline parametrizes a range of the number of flows.

This expinclude is a placeholder for a plot.
When the experiment finishes, the pdf file named will be available.