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Quiz#3

1. (0.5 points) Write a procedure stream-accumulate that, given a binary operator and a stream as arguments, generates a stream of consecutive accumulations. For example, given an operator \blacklozenge and a stream S, the elements of the resulting stream should be S_1 , $S_1 \blacklozenge S_2$, $(S_1 \blacklozenge S_2) \blacklozenge S_3$, ..., where S_n is the n^{th} element of S.

Use stream-accumulate to define the procedure partial-sums. Recall that partial-sums takes a stream S as an argument and generates a new stream in which the $n^{\rm th}$ element is $\sum_{i=1}^n S_i \ .$

Use stream-accumulate to generate a stream of factorials. You may find it convenient to use naturals, an ordered stream of the positive integers.

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2. (0.5 points) Given the following code:

```
(define s1 (make-serializer))
(define s2 (make-serializer))
(define foo (list 'a 'b 'c))
```

Draw all possible box-and-pointer diagrams resulting from:

Draw all additional box-and-pointer diagrams if instead of the above we had: