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Checkup Problems #1

Write a different version of factorial that uses an iterative process. factorial should still be called the same way (eg., (factorial 4)), so you will need to write a helper function that has one more variable.

Nested function

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2. Here is a definition of accumulate:
(define (accumulate combiner null-value term a next b)
  (cond ((> a b) null-value)
        (else (combiner (term a)
                        (accumulate combiner null-value term
(next a) next b)))))
Write factorial in terms of accumulate. Here's a skeleton of
part of what your answer must look like:
(define (factorial n) (accumulate <??> <??> <??> <??> <??>
<??>))
You have to fill in the <??>s. Any attempt to write factorial as
a recursive procedure will earn a score of zero.
(define (same x) x)
(define (plus-one x)
  (+ \times 1)
Combiner is multiplication because factorial takes products
Null-value is 1 in multiplication/division
Does not apply anything special to each term
Starts at 1
Each recursive call adds 1
Stops at n which is given
(define (factorial n)
  (accumulate * 1 same 1 plus-one n))
```