

$$fib-cter(C, a, b) = a \qquad if i=0$$

$$C_{i,a,b} \xrightarrow{\text{next}} C_{i',a',b'}$$

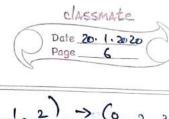
$$X_F^o = (n, o, 1)$$
 $n = nth$ fibonacei

 $v_F = \{next\}$
 n_0
 n_0

clf () (70 (term.)

b' = a+b

(a' = b



ex (3,0,1) -> (2,1,1) -> (1,1,2) -> (0,2,3) +

ib (i, a, b) → (i', a', b') then

thm: invariant (correctness)

$$(n, 0, 1) \rightarrow \dots$$
 (o, bibonacci (n), bibonacci (n+1))

P is an invariant of

 $(n, 0, 1) \rightarrow \dots$ (s true cohere $x_0 \in x^0$, and

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chasemate

Date 36.1.2220

6. (4.10)

5. (1.12)

3. (2.3)

2. (3.5)

1. (5.8)

P(i, a, b) =
$$df$$
 = f : bornecci (i+ f : bornecci (a))

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P(xe) = f (n, o, 1)

= f : bornecci (n + f : bornecci (a))

[2 f : bornecci (n + f : bornecci (a))

[3 f : bornecci (i' + f : bornecci (a))

[4 f : bornecci (c' + f : bornecci (a))

[5 f : bornecci (c' + f : bornecci (a))

[6 f : bornecci (c' + f : bornecci (a))

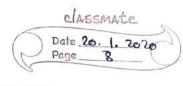
[7 f : bornecci (c' + f : bornecci (a))

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p 1/ d- 1/2

Rec for (= 0

P(i, a, b) = bibonacci (o + bibonacci (a))

: a = fibonacci(n).

23.12020

en check if string is palindrome.

acadaca palend

pal' (a' c'H, ps pratch' match (sij) = true of oci = aj

bale otherwork

martch (i) = model (

match (a, i, p) - match (a', i', p') off

· p is true,

is [n/2] e'= i+1

 $\alpha' = \alpha$.

reporter polindrome () invariant? #ps oli...n-i]

Piro) = P(a, o, troise) = palindrome (a[o. -- n-1]) V

= palindrome (a)

