```
(*PROBLEM 5*)
    (*Pre-defined Fibonacci function that was from the assignment*)
3
    fun fib 0 = 0
4
      | fib 1 = 1
5
      | fib n = (fib (n-1)) + (fib (n-2))
6
7
8
    (*Prob 5.1: A Fibonacci function derived by a continuation-passing style
9
     transformation of the earlier pre-defined function*)
10
11
    fun fibcc 0 c = (c 0)
12
     | fibcc 1 c = (c 1)
13
    | fibcc n c = (fibcc(n-1) (fn x => fibcc (n-2) (fn y => c (x + y))))
14
    ;
15
16
    (*Prob 5.2: Testing fibcc relative to fib*)
17
18
    fib 4;
19
    (*Result: 3*)
20
    fibcc 4 (fn x \Rightarrow x);
    (*Result: 3*)
22
23
    fib 11;
24
    (*Result: 89*)
25
    fibcc 11 (fn x => x);
26
    (*Result: 89*)
```

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