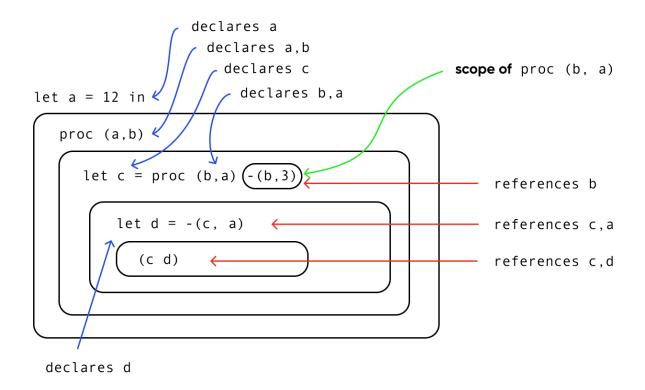
Problem 1A.



Problem 2B.

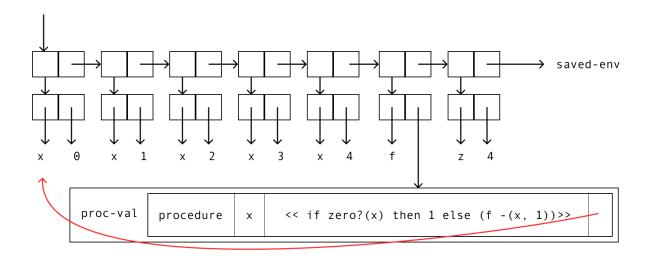
```
... = (apply-procedure (procedure x <<if zero?(x) ...>> [x=[4]]\rho2)

... = (value-of <<(f -(x, 1))>> [x=[3]][x=[4]]\rho2)

... = (value-of <<(f -(x, 1))>> [x=[2]][x=[3]][x=[4]]\rho2)

... = (value-of <<(f -(x, 1))>> [x=[1]][x=[2]][x=[3]][x=[4]]\rho2)

... = (value-of <<1>> [x=[0]][x=[1]][x=[2]][x=[3]][x=[4]]\rho2)
```



Problem 2A.

Problem 2B.

Problem 3A.

Main function for letrec-m

Problem 3B.

Yes, certainly! But, it depends on the requirements. "letrec" is essentially, "letrec-m" with only one procedure declaration, which means "letrec-m" can easily replace "letrec". In its current implementation, "letrec-m" extends the environment by declaring all the procedures at once within the same scope, which makes it possible to have mutually recursive procedures.

Depending on the requirement, letrec-m can easily be modified to bind procvals either in parallel, much like scheme's "let", or bind sequentially like "let*".

This is how a parallel binding would look:

append-env => binds pre-evaluated values to the environment.

This is how a sequential binding would look:

fold-env => iteratively evaluates and binds values to the environment.

Depending on the requirements, a binding mechanism can be implemented.