

Réponse à la série d'exercices #2 Implantation des fonctions

```
1. (define set-intersection
  (make-clos2
    (lambda (env)
      (clos-apply2 filter
        (make-clos1
          (lambda (env)
            (clos-apply2 member
              (list-ref env 0)
              (list-ref env 2)))
            env)
          (list-ref env 0)))
    env))
(define filter
  (make-clos2
    (lambda (env)
      (cond
        ((clos-apply1 null? (list-ref env 1))
          '())
        ((clos-apply1 (list-ref env 0)
          (clos-apply1 car (list-ref env 1)))
          (clos-apply2 cons
            (clos-apply1 car (list-ref env 1))
            (clos-apply2 filter
              (list-ref env 0)
              (clos-apply1 cdr
                (list-ref env 1)))))
        (else
          (clos-apply2 filter
            (list-ref env 0)
            (clos-apply1 cdr (list-ref env 1))))))
    env))
```

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2. (define set-intersection
  (make-clos2-0
    (lambda (clos s1 s2)
      (clos-apply2 filter
        (make-clos1-1
          (lambda (clos x)
            (clos-apply2 member x (clos-var1 clos)))
          s2)
        s1))))

(define filter
  (make-clos2-0
    (lambda (clos pred? lst)
      (cond
        ((clos-apply1 null? lst)
         '())
        ((clos-apply1 pred?
          (clos-apply1 car lst))
         (clos-apply2 cons
           (clos-apply1 car lst)
           (clos-apply2 filter
             pred?
             (clos-apply1 cdr lst))))
        (else
         (clos-apply2 filter
           pred?
           (clos-apply1 cdr lst)))))))

```