## Keeyon Ebrahimi N14193968 Assignment 2

```
1.
(a) (define (listfromTo a b)
          (cond\ ((>\ a\ b)\ '())
                (else\ (cons\ a\ (listfromTo\ (+\ a\ 1)\ b)))
                ))
(b) (define (removeMult a L)
          (cond\ ((null?\ L)\ '())
                (else
                      (if (= (modulo (car L) a) 0)
                             (removeMult\ a\ (cdr\ L))
                             (cons\ (car\ L)\ (removeMult\ a\ (cdr\ L)))
(c) (define (sieve n)
          (sieveHelper\ (listfromTo\ 2\ n)))
    (define\ (sieveHelper\ L)
          (cond\ ((null?\ L)\ '())
                (else\ (cons\ (car\ L)\ (sieveHelper\ (removeMult\ (car\ L)\ (cdr\ L)))))
                ))
```