

//p1: verify if a number is prime

```
function prime(int a):  
    check a=0:  
        return false;  
    check a=1:  
        return false;  
    go from int d=2 to a/2:  
        check a/d=0:  
            return false;
```

//p2: compute gcd of 2 numbers

```
function gcd(int a, int b):  
    int small;  
    int gcd;  
    check x>y:  
        small=y;  
    otherwise:  
        small=x;  
    go from int i=1 to small:  
        check x%i=0 and y%i=0:  
            gcd=i;  
    return gcd;
```

//p3: compute the sum of n numbers

```
function sum(list[int] a):  
    int s=0;  
    go from int i=0 to length(a):  
        s=s+a[i];  
    return s;
```

//perr: compute the sum of n numbers

```
function sum(list[int] a):  
    int s=@0; //error, unidentified operator  
    go from int 1i=0 to length(a): //error, variable cannot begin with  
a number/digit  
        s=s+a[i];  
    return s;
```