This program will generate all primes in the range 2-100 using the sieve method

list x will initially have the values 0-100 so that x[i]=i
The list primes will be constricted as each new prime is found

Each time a new prime is located, its place in list x will be set to zero,
the all of its multiples in list x will be set to zero.

When all elements in x are zero, the mail while loop terminates and the program
prints list primes.

```
x=[]
for i in range(101):
    x.append(i)

primes=[2]
x[0]=x[1]=x[2]=0

p=2  # the first prime

while sum(x) != 0: # as long as sum(x)!=0, there are still non-zero entries in x.
    # Zero out all multiples of p
    i=1
    while i*p<=100:
        x[p*i]=0
        i=i+1

    # Now, look for the next prime
    p=p+1
    while x[p]==0: # its at the next non-zero position of x
        p=p+1

    # We found it. Add it to the list of primes, and zero out its position in x
    primes.append(p)
    x[p]=0

# Done! Now print the list of primes.
print(primes)
```