class Polynomial:

## Intialize a polynomial with a list of coefficients.

## The coefficient list starts with the highest order term.

def \_\_init\_\_(self, coeffs):

self.coeffs = coeffs

## Return the coefficient of the x\*\*i term

def coeff(self,i):

current = self.coeffs.length()

pos = 0

while current > i:

current-= 1

pos +=1

return coeff[pos]

## Return the value of this Polynomial evaluated at x=v

def val(self, v):

exp = self.coeffs.length()

pos = 0

total = 0

while pos <= self.coeffs.length():

total += coeffs[pos]\*\*exp

pos += 1

exp -= 1

return total