distance:

| def distance (self, p):

| return (sqrt (p.x-self.x)\*\*2;

| (p.y-solf y)\*\*2;

| (p.y-solf y)\*

```
translate (deltax, deltay)

R, y point def translate (self, dre, dy):

self. r = self. r + dre

self. y = self. y + dry

T, O point def translate (self, dre, dy):

(my x, myy) = self. gelpoint()

self. selpoint (myx+dre, myyody)
```

Optional/default arguments

def int (string, base)!

E

requires int to be called with 2 args

always

Make bare optionial by providing a default value def int (string, base = 10);

"Persistent" names prahies

While creating points, remember all points even alled

Compute p.nearest() among currently defined points

Define attrictes outside all functions but

Inside Class

```
class Point:

allpoints = []

def __init_- (self, a=0, b=0):

self.x = a

self.y = b

Point. allpoints. append (self)

Define nearest neighbour of self
```

Inside a point

Sean all points in Point. all points

Compute distance to each

Return the nearest me