





Represent points in 2D Operations such as: Distance between 2 pts ~> distance (p1, p2) Translate a point ? Distance four origin p1. distance (p2) or p2. distance (p1)

h python:  
Use class to define templete for an ADT  
Instantiate classes as separate objects  
class Point:  

$$E$$
 pl = Point()  
 $E$  pl = Point()  
 $p_2 = Point()$   
 $i$   
 $def setvalue(--)$  pl. setvalue (6,7)  
 $\equiv Update internal state$ 

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class Point:  
def setvalue (self, a, b):  

$$self.x = a$$
  
 $self.y = b$   
 $self.r = sqrt(a+2+b+2)$   
 $self.t = arctan(b/a)$   
 $r_i \theta$  repr.  
 $r_i \theta$  repr.

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