

# TIPO (Point) + Funzioni

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```
type      Point      struct {  
              x,y      float64  
}
```

func

Dist (p1, p2 Point) float64 {  
[ ]

}

...

var p1, p2 Point

d = p1.Dist (p2)

func

(p1 Point) Dist (p2 Point) float64 {  
[ ]

}

...

var p1, p2 Point

d = p1.Dist (p2)

# METODI

## DEFINIZIONE

func (RECEIVER) NAME (PAR. FORMEL) (REST) {  
[ ]  
}

## INVOCAZIONE

RECEIVER . NAME (PAR. ATTUALI)

tipo Point  
New Point(x, y float64) Point  
(p1 Point) Dist(p2 Point) float64  
(p1 Point) Median(p2 Point) Point  
(p1 Point) String() string

tipo Line  $(\text{RETIRE } y = mx + q)$   
New Line(m, q float64) Line  
(r Line) Dist(p Point) float64  
(r1 Line) IsParallel(r2 Line) bool  
(r Line) Belongs(p Point) bool  
(r1 Line) Intersection(r2 Line) (Point, ok)  
(r Line) String() string

$$\begin{cases} y = m_1 x + q_1 \\ y = m_2 x + q_2 \end{cases}$$

$$m_1 x + q_1 = m_2 x + q_2$$

$$(m_1 - m_2) x = q_2 - q_1$$

$$x = \frac{q_2 - q_1}{m_1 - m_2}$$

$$y = m_1 \frac{q_2 - q_1}{m_1 - m_2} + q_1$$

type HasDistance interface {  
Dist (p Point) float64  
}

type HasDistance And Belongs interface {  
Dist (p Point) float64  
Belongs (p Point) bool  
}

type x interface { } Any