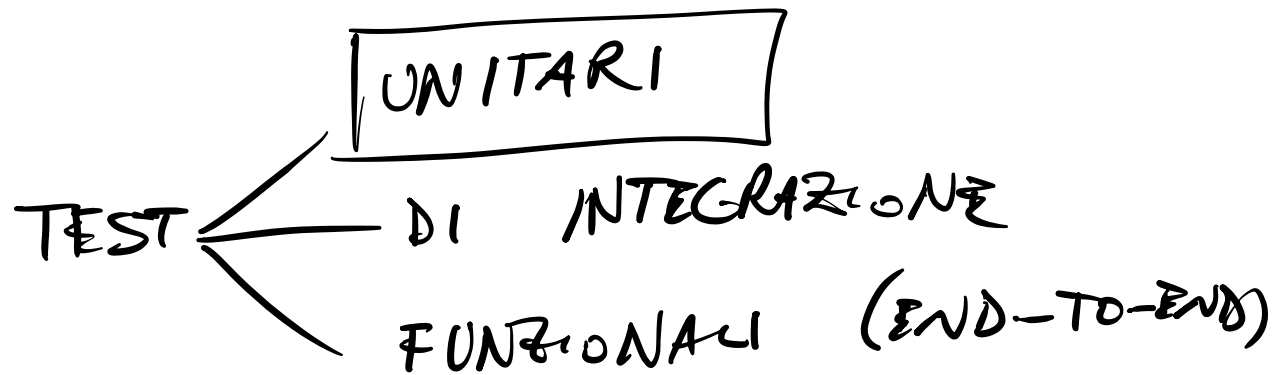
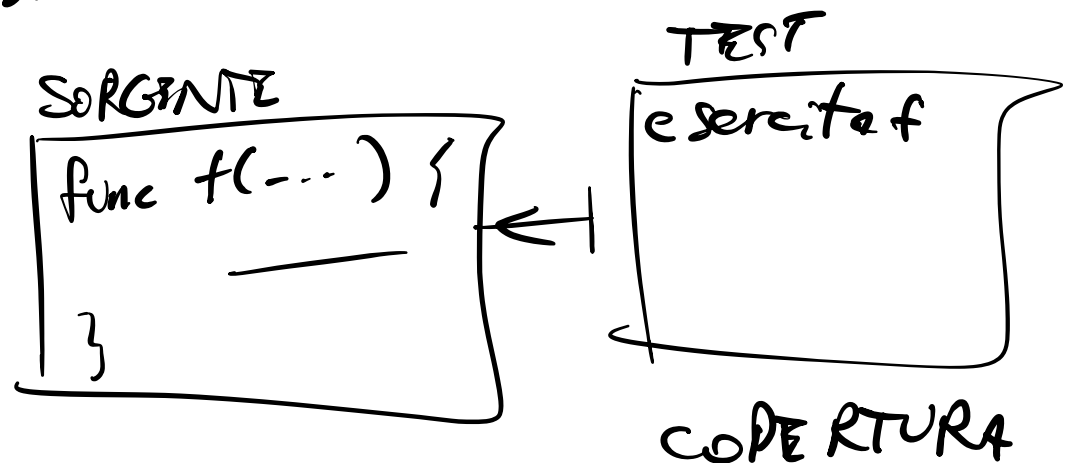


TESTING



TEST UNITARI



DE BUGGER

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PROFILER

go tool

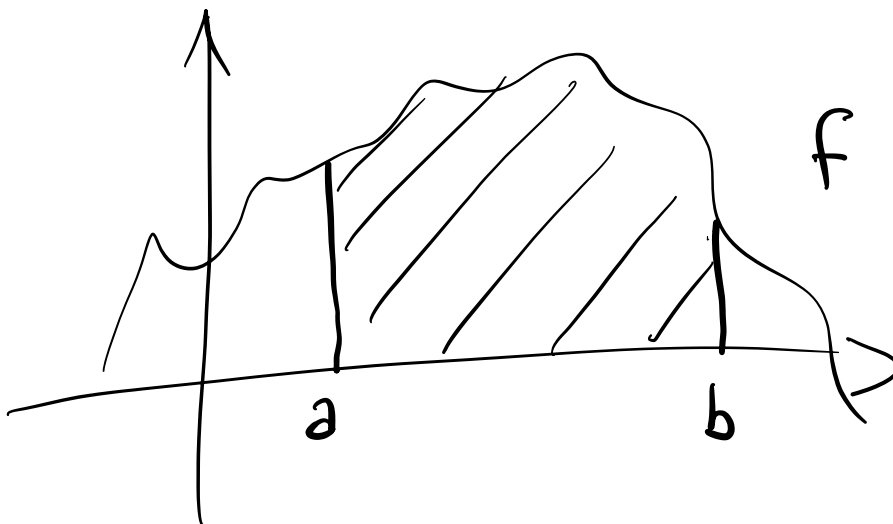
TIP1 FUNZIONALI

```
func main() {  
    var f func(float64) float64  
}
```

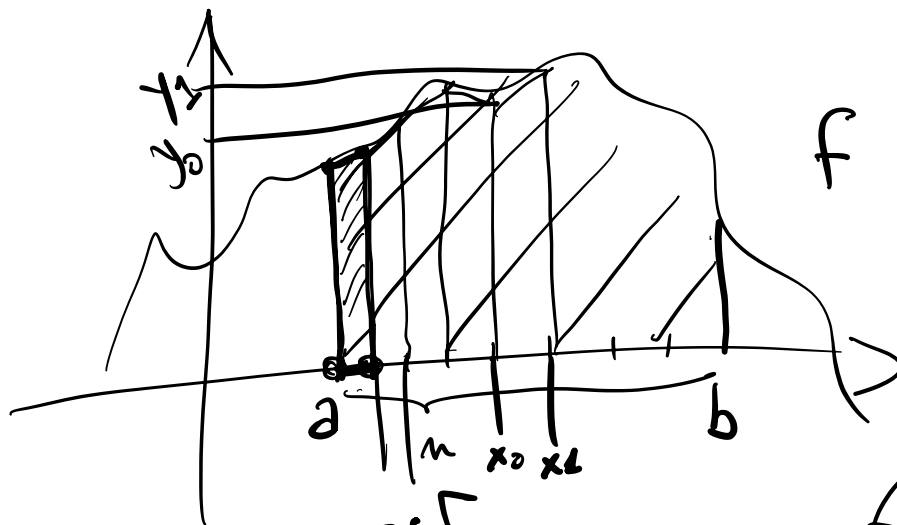
```
f = math.Sqrt  
fmt.Println(f(2))  
f = math.Sin  
fmt.Println(f(2))
```

}

INTEGRAZIONE NUMERICA
(METODO DEI TRAPEZOIDI)



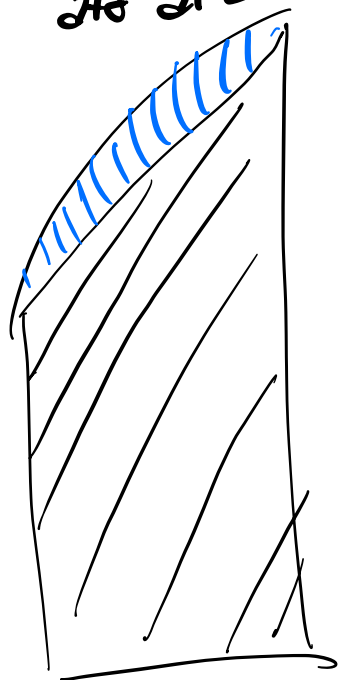
$$A = \int_a^b f(x) dx$$



$$a, a+\delta, a+2\delta, \dots$$

$$[a+(n-1)\delta, a+n\delta]$$

$$\delta = \frac{b-a}{n}$$



func

IntegrateTrap (f func(float64) float64,
a float64, b float64)
float64 {

n := 100
delta := (b-a) / float64(n)

s := 0.0

for i := 0; i < n; i++ {

x0 := a + float64(i) * delta

$x1 := 2 + \text{float64}(i+1) * \text{delta}$
 $y0 := f(x0)$
 $y1 := f(x1)$
 $S += (y0 + y1) * \text{delta} / 2$

return S

$$\int_0^3 (x^2 + 3x + 6) dx$$

}

func

parabola (x float64) float64 {
return x*x + 3*x + 6

}

func main() {

A := IntegralTrap (math.Sin, 0, 1)

B := IntegralTrap (parabola, 0, 3)

C := IntegralTrap (func (x float64) float64 {
return x*x + 3*x + 6 }, 0, 3)