

Inicio

```
double xi, yi, h, x_max  
double tolerancia, error  
int iter = 0  
int max_iter = 1000
```

```
print("Ingrese el punto inicial (x): "); scan("%lf", &xi)  
print("Ingrese el punto inicial (y): "); scan("%lf", &yi)  
print("Ingrese el punto máximo (x_max): "); scan("%lf", &x_max)  
print("Ingrese el espaciado (h): "); scan("%lf", &h)
```

error=1

$xi < x\_max$

```
double k1= f(xi,yi)  
double k2= f(xi+0.5*h,yi+0.5*h*k1)  
double k3= f(xi+0.5*h,yi+0.5*h*k2)  
double k4= f(xi+1*h,yi+1*h*k3)  
double yip1 = yi + (0.5*k1+0.5*k2)*h  
double xip1 = xi+h  
error = (yip1-yi)/yip1  
xi = xip1  
yi = yip1  
iter++
```

```
print(iter, xip1, yip1, f(xip1, yip1), error)
```

Fin