
Condicionales

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1 Un condicional simple

```
In [1]: def abs(x):  
        """  
        returns the absolute value of x  
        @type x:int  
        @rtype: int  
        """  
        if x<0:  
            x=-x  
        return x  
  
abs(10)  
In [2]: 10  
Out [2]: abs(-10)  
In [3]: 10  
Out [3]:
```

2 Consideramos la negación

```
In [4]: def abs(x):  
        """  
        returns the absolute value of x  
        @type x:int  
        @rtype: int  
        """  
        if x<0:  
            return -x  
        else:  
            return x
```

3 Podemos anidar condicionales

```
def degree(a, b, c):
```

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The logo for Cartagena99 features the text 'Cartagena99' in a stylized, blue, serif font. The '99' is significantly larger and more prominent than the 'Cartagena' part. The text is set against a light blue background with a subtle gradient and a soft shadow effect.

```

        result=1
    else:
        result=2
    return result
degree(2,3,4),degree(0,1,2),degree(1,0,0),degree(0,0,1)

```

In [6]: (2, 1, 2, 0)

Out [6]:

4 Elecciones múltiples

```

In [7]: def grade(note):
        """converts the numerical grade to the Spanish word
        @type note:float
        @rtype :str
        @precondition : note>=0 and note <=10
        """
        if note<5:
            return "Suspenso"
        elif note<7:
            return "Aprobado"
        elif note<9:
            return "Notable"
        else:
            return "Sobresaliente"

```

```

grade(10),grade(1.23),grade(3.45),grade(4.999),grade(7),grade(5)

```

In [9]: ('Sobresaliente', 'Suspenso', 'Suspenso', 'Suspenso', 'Notable',

Out [9]: 'Aprobado')

5 Otro ejemplo más complicado

Completa la siguiente definición de función

```

In []: def solve_linear_system(a,b,c,d,e,f):
        """
        solves the linear system of equations:
            a*x+b*y=e
            c*x+d*y=f
        @type a,b,c,d,e,f:float
        @rtype :(float,float)
        @precondition: a*d-b*c!=0
        """
        .....

```



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